Wednesday June 7 1989

World News

Soviet ethnic clashes leave 50 dead in Uzbekistan

Soviet ethnic tension erupted in the central Aslan republic of Uzbekistan, where the death toll rose above 50 and 500 were injured following bloody clashes between rival groups.

Khomeini buried

The body of Ayatoliah Kho-meini-was eventually buried at a cemetery outside Tehran, after hysterical scenes had forced a delay to the funeral.

US speaker elected US Democrat Tom Foley was elected Speaker of the House of Representatives, the second in line to the presidency, prom-ising to end recent bitter divisions. Page 9

German N-complex West Germany abandoned its \$5.1bu project to build a nuclear reprocessing complex at Wackersdorf in eastern Bayaria. Page 2

Ethiopian deaths Ethiopian President Mengistu Haile Mariam said 18 senior military officers were killed in last month's coup attempt.

Israeli ID scheme The Israeli authorities issued new computerised identity cards to residents of the Gaza Strip in a marked extension of their control over the move-

ment of Palestinians. Page 6 Punjab violence

Five people were killed in fresh guerrilla violence in India's Punjab state, where Sikhs have been battling for an indepen-dent state of Khalistan.

Hungarian debate A possible Hungarian Army intervention to save the con-servative wing of the Commu-nist Party, as in China, has been debated by Hungarian

politicians and generals.

Page 2

Twelve black men were sentenced to hang in the South African homeland of Ciskei for being part of a mob that

burned five youths to death.

EC exhaust bid

An eleventh-hour initiative to force the European Commu-nity to adopt a 1991 deadline for tough new car exhaust standards looks likely to be staged by West Germany. Page 2

Sri Lanka stand-off India and Sri Lanka headed off an immediate confrontation over Sri Lanka's demands for the withdrawal of Indian forces

from the country. Page 6 Lebanese peace bid Moroccan Foreign Minister Abdellatif Filali left for Saudi

Arabia to finalise details of a plan to end Lebanon's civil war drawn up by King Hassan.

Cypriot agreement UN Secretary-General Javier Perez de Cuellar said he sees a possible agreement emerging to the Cyprus problem after months of Greek and Turkish

Haughey poll blow Irish Prime Minister Charles Haughey's popularity has plummeted in the run-up to next week's snap general elec-

Madrid to take peseta into EMS mechanism

Spain announced plans to take the peseta into the exchange rate mechanism of the European Monetary System before July 1 next year, ending a long debate about the merits of full EMS integration. Page 26

COCOA: Dollar strength helped the cocoa futures market to stage a sharpish rally yester-day, although the general mar-ket tone remained dull in the

2nd position futures (£ per tonne)

1989 absence of fresh fundamental news. The September position ended the day \$35 higher at \$1,300 a tonne. Page 38

700

AIRBUS Industrie, the European airliner manufacturing consortium, is throwing down a new gauntlet to Boeing by going ahead with the development of a stretched version of its new A-320 medium range twin-jet aircraft. Page 26 .

INDIA rejected US charges of unfair trading practices but said it would continue to liber-alise investment policies.

CONTAINER traffic at some UK ports has dropped to a trickle this week as companies have acted to sidestep the threatened dock strike. Page

TURKISH Treasury's agreement on the terms of \$30m worth or commercial funding has opened the way for a \$10n project for local manufacture of armoured combat vehicles.

NWA, US owners of Northwest Airlines, gave bidders until June 16 to revise offers to buy the company in an auction likely to top \$3bn. Page 28

SVENSKA Handelsbanken, Sweden's' second largest com-mercial bank, reported a 4 per cent increase in operating profits. Page 29

INDONESIA and Japan are negotiating a new sales agree-ment for liquefied natural gas likely to set the pace for Far East gas trading. Page 8

US is set to announce the sale of 60 F-16 fighters to Pakistan at a cost of \$1.4bn. Page 9

SONY, Japanese electronics giant, amounced plans to form a Milan-based subsidiary that will sell workstations in Italy.

BRAZIL may suspend further payments on its \$112.3bn foreign debt by September, unle the International Monetary Fund resumes lending, bankers claim. Page 9

OECD, Organisation for Economic Co-operation and Development, urged the Netherlands to streamline its public sector, budget deficit and unemployment. Page 3

CREDIT Agricole, Europe's biggest banking group in terms of assets and shareholders' funds, has moved into the Swiss market. Page 32

CREDIT Suisse First Boston US-Swiss bank, launched a \$400m deal for BAT International Finance. Page 31

CNW, Chicago railroad group agreed a management buy-out offer worth some \$1.5bn. It will he acquired by a group led by senior manae including Blackstone, a New York bank. Page 28

Business Summary | Half a million soldiers march on capital • Unrest spreads to provincial cities

Foreigners airlifted from China as rival troops mass

By Robert Thomson in Peking and Robin Pauley in London

EVACUATION foreigners from China, some ising aircraft specially chartered by their governments, was under way early today as speculation mounted that Peking could be the setting for battle between rival units of the People's Liberation Army. Western intelligence reports indicated large-scale troop movements towards Peking and a spokesman for the hardline Communist Party leadership warned the country that the battle against "counter-rev-olutionaries" was far from

A large convoy of troop trucks and tanks headed east from the centre of the city early today, and speculation about an imminent attack by the 38th army, which is thought to support more lib-eral leaders, circulated throughout the capital. Spo-radic gunfire could be heard in various parts of Peking, but that has been the pattern since troops began their occupation on Saturday evening.

Western intelligence reports

suggest that as many as 500,000 troops have moved towards the capital, but whether any or all are members of a force planning to topple the country's present hardline leadership

clashes between troops of the 27th army, which has occupied the city since Saturday, and the 38th army. The 27th army is thought to be loyal to Zhao Ziyang, the Communist Party General Sec-retary, and to Qin Jiwei, the Defence Minister, neither of whom have been seen for some

One diplomat, however, said the troop movements towards Peking could represent part of a standard response to a per-ceived threat in the capital. In the light of the rapid deterioration in the situation, how-ever, most countries are taking no chances with their nationals. The US, Sweden, Japan, Australia and all 12 EC states

Australia and all 12 EC states joined the list of countries urging all non-diplomats to leave China as fast as possible. About 2,000 foreigners crowded into Peking airport as the exodus began. When it became clear that scheduled flights were becoming fully booked, the Australian Govern-ment and Sir Alan Donald, the British Ambassador, chartered Boeing 747 Jumbo jets to get their nationals out. Other charters are due today and tomorrow and the Nordic countries

A sign outside the US embassy in Peking reflected the deteriorating situation, warning foreigners that they would be shot if they attempted to take photographs of or use binoculars to view troops stationed in the area.
In provincial cities, meanwhile, protests continued to gather strength. Serious clashes were reported in Chengdu, in the south-west where troops are said by diplomats to have opened fire on protesters, killing as many as 100, and injuring many hun-

In the capital, Paking radio warned residents to stay indoors "to protect their lives." Chinese television last night broadcast statements by Yuan Mu, a government spokesman, who characterised the present turmoil as a "life and death struggle for the Communist Party and the nation," and showed contempt for interna-tional criticism of the actions of the People's Liberation

Army.

He said that "some countries even reprove us" for the weekend's violence, but, aware of the mounting moves to impose sanctions on China, asked: "If the government collapses, what is the use of loans and credits?"



Tanks — said by residents to belong to the 27th army — guard the Second Ring Road intersection in east Peking yesterday

have all announced sanctions and other Western countries and Japan are considering their positions.
Peking remained paralysed

yesterday with many roads blocked by debris from the

east of the city, and gutted military vehicles have been left to rot in the west. Troops have closed off large sections of a ring road that links the east and west, and most offices and

The US, Britain and France ades remain in place in the

France and UK take action against Peking

By Robin Pauley and Philip Stephens in London and Ian Davidson in Paris

FRANCE AND Britain China by offering full rights of yesterday took action to under-line the widespread interna-tional condemnation of the crackdown by the Chinese authorities on pro-democracy demonstrators in Peking.
The Prench Government

day flatly rejected growing calls from Hong Kong that it should respond to the crisis in

announced a freeze on all offi-cial relations with the Chinese Government. Britain said it would ban arms sales to China, suspend all ministerial exchanges between the two countries and, by implication, cancel the visit to China planned by the Prince and Princess of Wales later in the year. London, meanwhile, yester-

settlement in Britain to up to 3.5m of the colony's citizens. Its rejection came as Sir Geoffrey Howe, the Foreign Secretary, amounced that the Government would follow Washington in banning arms sales to China. The arms ban, however, will have only a symbolic impact because total sales in 1988 accounted for only £3m (\$4.7m)of exports worth more than \$400m. President Bush has banned all commercial arms sales and government to government sales to China.

The French action, announced by Prime Minister Michel Rocard, falls short of a break in diplomatic relations, although all official contact between the French Govern-

ment and the Chinese regime will be interrupted at every France is urging its 12 part-

ners in the European Commu-nity to work to co-ordinate their responses to the Chinese actions. However there is so far no co-ordinated EC action beyond a statement issued by the 12 from Brusels yesterday condemning the crackdown. In the House of Commons, Sir Geoffrey also indicated that in the light of events in Peking, he would look sympa-thetically at calls from within Hong Kong for speedler prog-ress towards the introduction of democracy over the next few

He said the Government was "considering urgently what

further steps can be taken to enshrine and protect Hong Kong's freedoms and way of life" after the colony's transfer to Chinese rule in 1997. He echoed earlier comments by Mrs Margaret Thatcher, the

Prime Minister, expressing the Government's "outrage, horror and total, utter condemnation" of events in Peking. Mrs Thatcher said the commitment to a secure future for Hong Kong was "as firm as ever." Both made clear, however, that their promised efforts to help to restore confidence would not extend to reversing

the provisions of the British Nationality Act, which denies UK settlement rights to Hong Kong holders of British Over-seas National passports.

Sir David Wilson, Governor of Hong Kong, is expected to press widespread local demands for them to be given full passports. He is due in London tomorrow and will give evidence to a select committee of MPs considering arrangements for the future of Hong

Kong.
Sir Geoffrey, however, indicated that the most the Government was prepared to do was to look flexibly at the provisions in the Nationality Act which allow it discretion in cific groups in the colony.

One suggestion at Westminister last night was that the Government might offer full

passports to some Crown servants

Victorious Solidarity seeks new talks with government

D 8523A

By Christopher Bobinski

MR LECH WALESA, the Solidarity leader, proposed new talks with the Polish Govern-ment yesterday to resolve the political impasse following Sunday's elections. These resulted in a crushing vote of no confidence in the country's

Mr Walesa told reporters in his hometown of Gdansk that the talks should "take into consideration the results of the elections." Official results have still to be published. still to be published.
"Poles have expressed their wish for new solutions and we must fulfil their expectations,"

he added, evidently seeking to respond to an increasingly radical mood among his supporters.
The original round-table agreement came after two months of talks between Soli-

darity and the government ear-lier this year. It committed both sides to gradual political and economic change and fully democratic elections in four

Under the pact, Solidarity was legalised as a trade union and free elections were held at the weekend to an upper parliamentary chamber, as well as to the lower chamber, the Selm, in which Solidarity was

guaranteed a 35 per cent share of the seats.

Mr Walesa did not clarify how far he wanted to go in modifying the agreement, but his statement was markedly more radical than the approach of Solidarity leaders yesterday.

Speaking in Warsaw, Mr

Bronislaw Geremek, a leading strategist in the movement, said Solidarity was ready to fulfil the round-table accords in their entirety. He made no mention of any possible new

He also said the very strong support for the union's candidates, who look set to take all but one of the 100 senate seats, as well as filling their alloca tion in the Sejm, represented a vote for "the policies of diaogue and compromise with the authorities."

Both radicals and moderates within the Solidarity movement face problems because of the failure of the government's national list of 35 names to win Mr Walesa had urged support for these candidates. The national list was made up of prominent officials from the

Continued on Page 26

RJR Nabisco sells five food companies to BSN for \$2.5bn

By George Graham in Paris and Lisa Wood in London

BSN, the leading French food group, yesterday thrust itself into the front ranks of the world food league with an annoucement that it is to pay \$2.5bm to accouire five European biscuit and crisp compa-nies from RJR Nabisco.

The deal, at the top end of analysis' estimates, pre-empts a controlled auction for the businesses which was to have started today in London. Prospective purchasers were to have given preliminary indica-tions of which businesses they were interested in.
Food companies tipped as

likely suitors had included United Biscuits and Northern Foods in the UK, Frito-Lay, the US subsidiary of PepsiCo, and Borden, the US food group. United Biscuits said: "We are naturally disappointed not to have the opportunity to hid for the type continental compathe two continental compa-BSN, however, wanted to have the deal in the bag before

today's deadline and Kohlberg

Kravis Roberts, the US lever-

aged buy-out specialists wanted a swift deal. Wanted a swift deal.

KKR acquired Nabisco in
December, and financing
arrangements for the \$25bn
KKR offer required debt repayments of more than \$5bn by early 1990. The sale of the European food businesses was the first part of planned dispos-

executive of RJR Nabisco, said: "BSN came in with a pre-emptive bid. It agreed to buy all the businesses in a single transaction at the upper end of our price range and close the deal quickly."

Mr Gerstner said an announcement on other disposals would come within the next 10 to 12 weeks. No decision, he said, had been taken over whether Del Monte, the fruit business, was to be sold. The five companies will put RSN, one of the leading Euro-

pean groups in sectors such as beer, mineral water and dairy

products, on to an even footing in the European biscuit market

with United Biscuits of the UK. The purchase will reinforce BSN in Italy, through the acquisition of Saiwa, and in its domestic market, where the Nahisco subsidiary Belin will give it an estimated 45 per cent

market share.

In the UK, where BSN was only weakly represented until the acquisition last year of the HP Sauce and Lea & Perrins businesses, the purchase will place the French company first in the stier and greeks market. in the crisp and snacks market through Nabisco's Smiths and Walker divisions, and second in biscuits through its Jacob's subsidiary. BSN said the five divisions

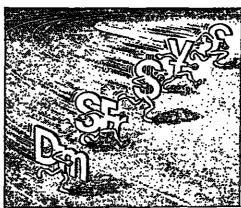
together represented sales of around FFr8bn (\$1.19bn) and net profits of FFr620m in 1989. With an estimated FFribn to FFr1.5bn of cash and a FFr4.5bn bank facility, BSN will have to borrow some FFr10bn to pay for the five Nahisco companies. The com-pany is expected to tap the equity market in some form in the coming months.

Haples: Shining through a tarnished image ... 2

Afghanistans Holy war within the battlefields 6

ement: Grasping the opportunity of a

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tion, an opinion poll said. MARKETS **New Zealand** Barclays Index

2100 2000 1900

yield: 8.416% (8.552) SFr1.7140 (1.6955) Long Bond: 104 \(\) Y142.90 (141.85) (105)\(\) yield: 8.421% (8.377)

3-month interbank: close 1416 % (same)

DM3.1025 (same) FFr10.5500 (10.5400) SFr2.6900 (2.6825) Y224.25 (224.50) DOLLAR New York lunchtime DM1.97315 (1.9820) FFr6.7065 (6.7395) SFr1.7065 (1.71325) Federal Funds 9.2% London: DM1.9770 (1.9625) FFr6.7225 (6.6660)

New York Comex August \$374.5 (370.8)

New York &

\$1,5725 (1,5670) London: \$1,5895 (1,5815)

STOCK INDICES New York Junctific Dow Jones Ind. Ay, 2,480.88 (+0.18) S&P Comp 321.91 (-0.12) FT-SE 100 124.97 (Mon) Tokyo Nikkei Ave 33,452.01 (-5.07)

Frankluri Commerzbank 1,750.7 (-15.8) Brent 15-day (Argus) \$18.40 (+0.025) (June)

West Tex Crude

For Prime Minister Poul Schlüter next week's poll is an important test for the Government's radical tax plans designed to bring sweeping changes in personal

liberalised market ... atz After Khomeini; Trouble with UK buyouts Drug Industry: Prescribing for medical and other headaches. US-Japan: Why managed trade is bad idea .25 Lext BSN; Abbey: CGE; New Zealand ...

CONTENTS Danes finally come to terms with the EC

and corporate taxation and public spending Page 3 Agriculture Arts-Reviews ... World Guide .

Bonn drops nuclear reprocessing plans

By David Marsh in Bonn

formally abandoned its DM10bn (£3.2bn) project to build a nuclear reprocessing complex at Wackersdorf in eastern Bavaria and agreed to improve co-operation with France in joint handling of scent uranium fuel.

Veba, the West German energy and chemicals group, is expected to take a stake from the end of the 1990s in an extension of the French nuclear reprocessing complex at La Hague on the Normandy coast. The details, however, are a long way from being decided. The ending of the Wackers-dorf venture, sealed at a Bonn

cabinet meeting and then detailed in a joint statement by the West German and French governments, is a highly symbolic setback to 30 years of West German efforts to catch

up with France and Britain in nuclear fuel technology. The Wackersdorf plant, on which DM2.6bn has already which DM2.6bn has already been spent, is expected to be turned into a factory to produce solar energy cells, under a plan being studied by the Siemens electricals giant.

The snelving of the Wackersdorf project, launched in 1985 after more than a decade of discussions about building a

discussions about building a full-scale reprocessing plant, is likely to heighten Bonn's dilemma over energy policy.
France is making plain that it expects West Germany to open up to imports of its

WEST GERMANY vesterday French nuclear-generated electricity as part of future energy co-operation.

Mr Roger Fauroux, French Industry Minister, denied in Bonn yesterday that there would be a "legal link" between opening of the West German market and progress on reprocessing. But, at a joint press conference with Mr Klaus Topfer, the Bonn Envi-ronment Minister, he said the question of French electricity exports would be discussed within future energy collabora-tion talks with the West Germans.

The Bonn Government is already under attack from the European Commission about its subsidies on purchases of domestic coal by West German subsidiaries to keep coal mines

Pressure from Paris to substitute French nuclear energy for German coal-generated electricity will add to its difficulties over pit closures in largely Social Democrat-run areas in the Saarland and the Ruhr.

The Wackersdorf project, the scene of violent anti-nuclear demonstrations in the past few years, was meant to separate around 350 tonnes a year of spent West German fuel into plutonium and re-useable ura-nium from the mid-1990s onwards. Instead, West German utilities will now be send-ing burnt nuclear fuel to La Hague for reprocessing beyond



"Stop the nuclear madness" says a banner in a demonstration against the plant last year

the end of the century. The Germans are also exploring a reprocessing offer from Britain's Sellafield complex.

West German utilities, which have financed a large part of the overall DM15bn construction costs of La Hague, have already been sending spent fuel to Normandy since 1976. A total of 1,600 tonnes of West German fuel has been repro-cessed at La Hague, with 860 tonnes of spent fuel currently stored there ready for reprocessing in coming years.

The French nuclear fuels concern Cogema is offering a price for reprocessing from the end-1990s onwards which is about one third the prospective price of Wackersdorf.

Wackersdorf has been abandoned because the political and economic cost of the plant has grown out of all proportion to its benefits. In view of the large drop in international nuclear plant construction, and the virtual elimination of plans to build commercial size plant. to build commercial-size pluto-nium-burning fast breeder reactors, the energy value of the plutonium produced in reprocessing plants has dropped dramatically.

West Germany has run since Mr Franz Josef Strauss, the former Bavarian Premier - was to advance in the nuclear fuel cycle by developing full com-mercial expertise in plutonium-separation, a technology originally harnessed by the US, Britain, the Soviet

1971 a pilot reprocessing plant at Karlsruhe in the south

which has separated more than a tonne of plutonium. How-ever, a prime aim of a genera-tion of West German nuclear lobbyists – including the late Union and France to make nuclear bombs. That plan has now been formally buried.

EC move on W Germany cuts benefits for East bloc immigrants

ELEVENTH-HOUR initiative to force the Euro-By David Marsh in Bonn pean Community to adopt a 1981 deadline for tough new car exhaust standards locks likely to be staged by West Germany when RC Environ-

ing and tax benefits for emigrés from eastern Europe in a move to reduce popular resentment about increasing

embourg tomorrow. EC diplomats say that the move by Bonn, announced late immigration. Mr Wolfgang Schäuble, the on Monday night by the Federal Republic's Transport Minister, Mr Friedrich Zimmer-Interior Minister, yesterday denied that the decision was mann, and expected to be supported by the Netherlands. meant to deter inflows, but it is clearly intended to have some impact in discouraging Denmark and Greece, could German nationals from the complicate what many are boping will be the final lap of the highly charged "clean Soviet Union and eastern Europe from quitting their homes.

The number of immigrants from East Germany, the Soviet Union and other eastern European countries, led by Poland, is expected to rise to 360,000 this year from 240,000 in 1987.

The trend is due to East bloc

cars" dehate. Events have moved fast in the last few months, with the European Commission's dramatic conversion to the high-est "US style" emission stan-dards for small cars, which Brussels says should be com-pulsory in Europe by 1993.

car exhaust

ment Ministers gather in Lux-

standards

By Tim Dickson in

Previously reluctant mem-ber states like Britain and Italy (and possibly even France and Spain) have also shifted their position, with the result that a qualified majority for the more ambitious emission levels is now virtually assured.

The so called "green" group of countries have long shown their impatience at the slow pace of developments in Brussels but the risk they run in now pushing for an earlier date is that they could break the fragile consensus on 1992 that already exists.

Britain, France and Spain will almost certainly argue against any-change in the tim-ing, not least because they say the West German car industry is well equipped to instal the necessary catalytic converter technology and will thus reap a considerable and unfair

Many suspect that West Germany's real motivation is to up the ante in the inevitably fractious debate tomorrow on how to control member states who offer immediate tax incentives to consumers buy-ing cars with the higher stan-

France and Britain are wor ried that these are a distortion of the internal market.

Jobless rate dips

The EC unemployment rate dipped slightly in April to 9.3 per cent, official EC figures show, Reuter reports from Luxembourg. The seasonally adjusted rate fell from 9.4 per cent in March, but there were still signs that the decline in

will become a pleasant place

for tourists to stroll.

Those businessmen who cur-

rently avoid Naples will be

able, thanks to the new busi-

ness centre, to get in and out quickly – and they might be tempted to stay and visit a

But is there not a danger

that the ghetto - currently only a block away - will sim-

ply engulf the Centro Storico? The Bank of Naples and a

group of private and public companies have an answer for

Following the princi-ple - well-pioneered by Mede-dil - of killing the Commune

with kindness (in other words giving it things it is incompe-

tent to produce for itself), a consortium of companies has

presented the municipality with a detailed plan to restore and rebuild the Centro Storico.

including the many palazzi which are simply rotting.

favour, but some of his fellow

councillors are not so sure. The council would no doubt make a

huge windfall gain out of the development, but it would lose

Mayor Lezzi is cautiously in

museum.

that as well.

THE WEST German are registered as without jobs government yesterday announced cuts in social, hous-

memployment pay.
Those without work will instead receive for 12 months a monthly sum of DM1,000 (\$510),

billed as "integration money."
Mr Schäuble said the measures would improve the immigrants' overall welcome, while Mr Norbert Bluem, the Employment Minister, claimed the move showed "solidarity." • Confirmation of a bouncy economic start to the year came yesterday with news from the Federal Statistics Office that German gross national product in the first quarter was a real 4.2 per cent above the same period last

On a seasonally adjusted basis, first quarter output rose 3 per cent from the final quar-

The trend is due to East bloc ter of 1988. Sooming exports have con-tributed to overall buoyancy. According to separate figures yesterday, West Germany recorded a trade surplus of lic's constitutional recognition of the German nationality of about 4m east bloc citizens, the immigrants have been able to DM9.9bn in April, down from DM12.8bn in March, taking the trade surplus in the first four months of the year to DM45.9bn, up from DM34.7bn in the first four months of 1988. claim generous benefits on The current account surplus

Among other measures, between January and April immigrants from the East
- about 20 per cent of whom rose to DM37.1bn from DM 24.7bn the previous year.

Steel market upturn may falter, producers fear

By William Dawkins in Brussels

economic difficulties and liber-alisation of emigration policies.

Reflecting the Federal Repub-

arriving in the West. This has inflamed political controversy

and given a boost to right-wing

STEEL PRODUCERS and slavia and Turkey, not normerchants in the EC fear the mally active in European marupturn in steel consumption could soon run out, the European Commission warned yes-

ierday. Consumption should rise slightly in the next three months to 29.5m tonnes, up from 28.8m tonnes in the third quarter of last year, according to the Commission's latest forecast. This will be slightly less than production of 32m tonnes for the period, unchanged from the compara-

However, steel users and suppliers have been building stocks recently, causing some steel producers to "fear a change of fortunes towards the end of the year," the Commission said. They are also wor-ried that prices might soften

because of a recent increase in exports to the EC from Yugo-

So far this year, the upturn in steel demand has shown no signs of slackening. EC production in the first quarter of this

own forecasts and 4 per cent more than the same period last This is being driven by a forecast 8 per cent rise in EC investment in equipment and a 5 per cent increase in construc-

year reached 36m tonnes, 1m tonnes more than Brussels'

tion investment this year. The threat of decline among the steel industry's big customers is strongest in the car industry, where growth should be slower than in 1988, the Commission forecast. While demand for cars is still high in Spain and Italy, the French and West German markets show signs of weakening.

Rising Yugoslav inflation adds to pressure on PM

By Aleksandar Lebl in Belgrade

RETAIL prices in Yugoslavia increased by 23.4 per centiast month compared with April, bringing the rise so far this year to 159 per cent and raising the prospect that inflation for could go up by more than the prospect that inflation for could go up by more than the could go u 1989 as a whole could rise to

1,000 per cent.
The latest figures have increased pressures on the new Yugoslav Prime Minister, Mr Ante Markovic, to announce an anti-inflation programme. He has continued to insist,

however, that there is no need for a special programme and doubtless mindful of the embarrassing failure of similar plans by his predecessors - he has avoided setting targets for getting inflation down. Mr Markovic, sworn in on March 16, has instead pressed with an ambitious deregulation programme. Imports (by both the private and public sector) and prices have been further liber-alised, and limits on the with-drawal of foreign currency from private bank accounts were lifted.

The hope is that inflation should be squeezed out of the economy through very tight monetary and credit policies, as well as changes in the system of payments for exports to state-trading countries, and the gradual phasing out of promissory notes as means of pay-ment between companies. The authorities broadly project that inflation will tail off towards

the end of this year.
Pending approval by the par-liament is the revised budget, which for the first time shows all revenues and expenditures of the federation, including the

EC subsidises

THE European Commission is to promote better transport links between the Communi-ty's 12 member states by offering Ecus 60m worth of interest rate subsidies on major road, rail and air traffic projects.

Although in nominal terms at 72,700bn dinars (\$727m)it is 333 per cent above last year's (and in view of inflation it could go up by more than that) it will represent 8.5 per cent of the social product, or half a percentage point less than orig-

inally planned.

The armed forces have agreed to limit their share of the national income, and will not ask for extra funds to cover their work in subduing protests by the ethnic Albanian majority in Kosovo over the curbing of the province's

autonomy. The Government does not intend freezing prices or wages andMr Markovic expressed hope that the International Monetary Fundwill concur in

An IMF team held talks in Belgrade recently about a possible a new, standby agreement of perhaps 18 months, to enter force after the present one year

arrangement expires in late June.
The IMF is reported to be insisting on tightening mone-tary and credit policies, and on institutional changes regarding the role of the central banks, but not on wage controls of the

kind which caused widespread discontent last year. The main aim is to purge it from all remaining provision which allow interference from republics and communes, or political factors, and to enhance the policy of equal rights for all forms of owner-

ship, public, co-operative, private or mixed.

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Call for unified air traffic control over Europe

By Paul Setts in Paris

DIMINISHING airspace, inefficiency and under capital-isation in some national air traffic control authorities and a serious manpower crisis, together with the issues of sovereignty and protectionism, constitute the biggest threats to liberalisation in European

air transport.
Mr Peter Martin, a partner
in Frere Cholmeley solicitors, issued this warning at the opening of the Financial Times Commercial Aviation and Aerospace conference in Paris yesterday. He said that until a more unified and uniform air traffic control system was established in Europe, the situ-ation could only get worse. "Consideration must be given by the European Com-

mission and member states to the making of grants or loans to member and non-member states for the updating of existtraining and so on," he said. Other speakers at the confer-

ing air traffic control systems. ence agreed that pressure is likely to grow on European governments to improve air transport infrastructures.

Mr Geoffrey Lipman, the

executive director of the Inter-

national Foundation of Airline Passengers Associations (IFAPA), argued that a unified air traffic control system was the obvious solution. "A single European market needs a sin-gle system of air traffic con-trol," he said, adding that congestion was expected to get worse in the short term.

Mr Wolfgang Philipp, the director of operations of Euro-control the European organisation for the safety of air navi-gation. also argued that the current political climate for developing a European air traf-fic control network based on common standards and procedures must be encouraged. He said that if governments wanted to use Eurocontrol as a design authrority or consultant to solve the problems "we are at their disposal".

Congestion at airports is undermining efforts to increase airline competition, said Mr Clifford Paice of the Civil Aviation Authority. He argued that congestion problems actually favoured airlines with landing slots at heavily ested airports, while airport infrastructure problems undermined new entrants in tary relationship between air director general of the Interna- between airlines," he said.



CONFERENCE

COMMERCIAL **AVIATION AND AEROSPACE**

the market by preventing them access to principal airports.

He urged regulatory authorities to look carefully at the need to build up consumer protection for passengers against exploitation by airlines with privileged prefittings of private. privileged positions at princi-

Mr Bernard Lathiere, the chairman of Aeroports de Paris, explained that one solution to improve overall transport congestion was to make the best use of the complemenstion was to make he said.

travel and new high speed rail systems. This will be the case of Charles de Gaulle Airport in Paris, which will be connected to the French high speed train network.
With the European Commis-

sion working on a second set of air transport liberalisation measures to be completed by 30 June, 1990, Mr Stanley Clin-ton Davis, the former Euro-pean Commissioner for transport, environment and nuclear safety, explained the EEC's approach to deregulation.

"What the Commission has been striving for is not a free-for-all, not complete dere-gulation, but rather an approach based on creating order in the marketplace along with opportunities for competi-tive enterprise," he said. Mr Clinton Davis also argued that the notion of national carriers was likely to become less meaningful in the future. We may find ourselves with truly Community airlines on whose behalves rights would be traded with non-Community

countries at Community level,

Naples shines through a tarnished image

tional Air Transport Associa-tion (IATA), said he did not believe in the emergence of European super-carriers, although there would inevita-bly be closer co-operation tween major European airlines as well as increasing minority cross-shareholdings

between airlines. He added that that aviation nationalism was likely to be eroded by the contraction of state ownership. In turn, pri-vate ownership would make it

easier to introduce foreign investment in airlines. He claimed this movement towards foreign investment was as remarkable as privatisation. There are currently several cases in various countries in which foreign investment in an airline has been accepted or is under consideration," he

"We are entering a period of profound long-term change, with mergers or partial merg-ers, plurinational carriers, computer reservation system groupings, commercial alliances, cross-border equity actions, and other forms But Mr Gunter Eser, the of co-operative endeavour

the rate since October 1984 was slowing, said the Eurostat statistical office .

Army 'no threat' to Hungarian

reforms By Laslie Colltt in Barlin

THE POSSIBILITY of an Hungarian Army intervention to save the conservative wing of the Communist Party, as in China, has been debated by Hungarian politicians and gen-

Major General Janos Sebök,

a member of the Hungarian Parliament, said the army would "never use force" to stop a process of radical democratisation in Hungary. Gen. Sebok said the armed forces would respect a new constitution, currently being

drafted, which no longer declares the leading role of the "Our soldiers will not resort to force" he stressed in a recent Hungarian newspaper interview. The role of the military has been raised because of the growing split between radical reformers in the Party who could win a decisive vic-tory over the conservative

A recent poll disclosed that if free elections were held now Budapest would choose the Communist Party and less then 40 per cent nationwide.

minority at a party congress

next autumn.

Gen Sebok cited the example of Poland's leader, General Wojciech Jeruzelski, who he said had "set back" Poland ten years and made the Polish Party "even more unpopular" by declaring martial law in

The Hungarian general said the army was still under the "control and management" of the Party but that this would be "unthinkable" in the multi-party system being cre-The Hungarian Party leader. Mr Karoly Grosz, however, spoke on May 18 of the need to

act against the "depoliticisa-

tion" of the armed forces

which were constitutionally

bound to defend the socialist

Bruce Clark examines the chequered development of Italy's Mediterranean port T IS HARD but important

not to romanticise about Naples too much. A beauty spot, a planner's nightmare, an aesthete's paradise, a gangster's playground, it mixes joy and misery, fear and exuber ance, squalor and refinement so delicately that the term bitter-sweet might have been invented for it.
The Centro Storico (historic

centre) curling round the bay

represents an major slice of Europe's cultural heritage. Its ill-maintained museum houses some of the greatest surviving pieces of ancient art; there are exquisite churches from most of the last eight centures; palaces, castles and forts. worthy of a once great power. Yet compared with Venice or Florence, it is scarcely visited by tourists; visitors who make it to the northern outskirts generally prefer to dodge the squalor and take a hydrofoil that whisks them mercifully to

the island of Capri, a refuge

from the *profanum vulgus* since Roman times, where money seems to drip off the cypresses. Por those who do venture into the Centro Storico, there is (given New York-style precau-tions) on balance more to delight than to repel: luxurious seafront hotels, if you can jay-walk through the traffic to get to them, excellent fish restaurants, and the subtle, ambiguous charm of the Neapolitans. So the visitor can almost sympathise with his Neapoli-tan driver who, hopelessly

trap cars, sighs wonderingly at the beauty of his native city and invites his passenger to agree that the problem of air pollution has been much exaggerated. Yet there is nothing romantic about the living conditions of the city's underclass, perhaps 300,000 people out of a total population of 1.3m (2m if

stuck in a maelstrom of rattle-

you include the hinterland). The voice of Mayor Pietro Lezzi, a peppery veteran Socialist, cracks with high-pitched emotion as he describes life in

you count the suburbs, 5m if

the tenements: "Six, seven peo-ple in a room, no lavatory, no drains...Unacceptable condi-

And only from the comfort of a north European cinema is there much romance about the trade in heroin, kick-backs on building contracts and protec-tion money that is practised by the Camorra, the Neapolitan mafia; or about the fierce shooting wars that rage in the ghetto between rival Camorra factions, struggling to fill a void after the mysterious disappearance last year of chief-tain Antonio Bardellino.

If your appointment sched-ule is not too heavy, you can shrug off the chaos of the city centre as a self-inflicted wound with which the residents are well used to living.

And, faced with the city council's staggering record of incompetence - billions of dol-

lars of aid from Rome and Brussels have passed through its hands like a sieve - you can observe, wryly, that the council is quite effective in its real function, that of keeping Naples can, in certain lights, look like a crazy, but internally coherent system.

There is a certain perverse logic, for example, about the fact that garbage collection is due to be privatised this year - while the existing 7,000 collectors, who manifestly fall to do much collecting, remain on the pay-roll The Commune (municipality)

is thus formally separating its role as a provider of employment from its role as a (grossly inadequate) provider of ser-But, there are all kinds of threats to the current system, which has traditionally been

guetto dwellers whose votes are easily bought and managed, and the underworld. Naples, a city with strong feudal traditions, has been slow to feel the influence of the social and economic forces that have transformed much of

oiled by a complex network of

relationships between elements

of the local political class, the



A chestnut seller winds her way through the narrow, overcrowded and often rubbish filled back streets of Naples

Italy: by the sophisticated, market-oriented neo-capitalists and the liberal neo-Commu-nists who have achieved such happy synergy in many north-

But these forces have not entirely bypassed the Naples area. The Bank of Naples, one of the few institutions of nationwide importance based in the city, reports that, with public companies in somewhat better financial health (not least because of the number of jobs they have shed in Naples), its clients include an increasing number of healthy private companies.

So far this has not been enough to offset the plunge in employment caused by the exhaustion of a lucrative reconstruction programme following the 1980 earthquake, by the decline of shipyards, engineering works and the Bagnoli steel mill. But the private sector, and

powerful enough lobby to agi-tate hard for an improvement in the city's appalling infrastructure.

there are car parks, green spaces, and pedestrian precincts, superb transport links, in short everything the Commune has never provided. Mededil, the public construction company which was the driving force behind the project, claims that its initial out-

lay of L150bn (about \$105m) has attracted investments of over L2,000bn. The Bank of Naples headquarters, all the major public utilities any offices of the municipal council will move to the new centre. But if the Centro Direzionale

succeeds, what will happen to the Centro Storico? The idea, according to Medethe more dynamic bits of the public sector, by now form a freed of commercial activity,

much of its easily abused power over city centre prop-Part of Naples' future towers over the city centre a short dis-It is hard to gauge how tance to the south: the high-rise office and appartment buildings of a new business centre, the Centro Direzionale: much of the council's hesita-tion is because of fears, voiced in good faith (in particular by the Communists) of a new speculative orgy, and how much reflects a perceived

threat to cosy arrangements between local power brokers and ghetto-dwellers. But business and local administration moves en masse into the Centro Direzionale (or moves out to the sub-urbs, as much wholesale activity has already done) and nothing is done about the Centro Storico, the latter area's decay could accelerate to the point of no return.

The area housing some of the world's greatest cultural treasures could become not merely squalid, but impassable. As though the Acropolis was located in the South

transport link

Priority will be given to high-speed train links ranging

from Amsterdam and London in the north-east of the Community to Lisbon and Seville in the south-west; the Brenner pass across the Alps; upgrading of European air traffic con-trol; the North Wales coast road, and Greek road improve-

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Danes finally come to terms with EC

Membership of the Community is no longer a campaign issue, writes Robert Taylor

HEN DENMARK Association. goes to the polls next week in the Euro-pean election it will be the first time that continuing membership of the European Community will not be an important

Perhaps even more reluctant Europeans than the British, the Danes have become reconciled to the EC only after a long period of doubt and suspicion that was finally ended in February 1986 when 56.2 per cant voted in a national refer-endum to support the Single European Act and the formation of the internal market.

As a result, the non-party (though mainly left-wing) group known as the People's Movement Against the EC Movement Against the EC stands to lose perhaps half the four seats out of Denmark's 16 it holds in Strasbourg at the moment. In 1984 the Movement polled as many as 20.8 per cent of the total Danish vote, higher than any political parties except the Conservatives.

Mr Jens-Peter Bonde, who heads the Perple's Movement

ads the People's Movement list in the current election, however, believes the group will hold its ground, arguing that it will speak with a firm voice in Strasbourg on environmental and social questions but at the same time call for a kooser Europe through a future convergence between the EC

"It is a very open election," he claims. "Denes remain very schizophrenic about the EC for there is """. there is very little support for any move to closer political or

Observers believe that the Social Democrats, Denmark's main opposition party, who have three seats in Stra could perhaps double their representation this time at the expense of the People's Movement. After many years of internal division over the EC question, the party has become a strong EC supporter, backing the European Socialist Manifesto with enthusiasm.

The latest national Gallup poll shows that the Social Democrats have 30.6 per cent support among the electorate and they seem likely to benefit from the fact that the differences within Danish politics over the EC are becoming more defined along traditional right-left difference

For Denmark's Prime Minister, Mr Poul Schlüter, and his servative party next week's poll is turning into an impor-tant test for the Government's radical tax plans that were unveiled just over a week ago which are designed to bring about sweeping changes in personal and corporate taxation and public spending cuts.

Personally rather unenthusiastic about giving the Stras-



bourg Parliament greater powers, Mr Schlüter nevertheless is campaigning fairly energetically because he regards the tax plan as an important contribution to preparing Den-mark for the dynamic of the

However, perhaps only the Liberals are out-and-out enthu-slasts for a more integrated EC. They have the most excit-ing candidate, in a rather dull national list, in Mr Klaus Risker Pedersen, a rich young financier, but, with only two seats at present, they seem unlikely to will make any significant gains.



Prime Minister Poul Schlüter: Important test for tax plans

Mr Schlüter's other coalition partner, the Radicals, have demonstrated yet again their traditional eccentricity by making a tactical electoral allimaring a tactical electoral sill-ance with the Social Demo-crats, adding confusion for vot-ers. Although they are unlikely to win any seats, their decision must put a question mark over their long-term commitment to

the Government.

The populist Progress party, which failed five years ago to capture any seats in Strasbourg, is riding high in the national polls. With its anti-tax image and 12.6 per cent of the vote in the latest opinion survey, it can expect some repre-

sentation this time on the fringe of the Parliament.

However, the outcome in Denmark will depend very much on the size of the turnout. In 1984 only just over 52 per cent bothered to vote, the lowest figure of any European country except Britain, and the present feeling is that the figthe same recently is that the in-ure will not be much different this time. The party campaigns have hardly begun and there has so far been very little media coverage of the election, which appears to be leaving most Danes rather indifferen

But this mood of apathy could change. Many Danes are generally worried that their welfare state and their environment could be threatened by a lowering of standards to bring their country into line

with the rest of the EC.
All parties recognise that
they are going to have great
difficulty harmonising the Danish indirect tax rate (22 per cent on all items) with the rates the EC intends to intro-duce without large cuts in public spending that most Danes would find unacceptable.

"This time the main parties are united on seeking to crush anti-EC sentiments," says Mr Mikael Bramsen, head of the European Parliament office in saying we have got to get the best for Denmark out of the present system. This is new."

OECD prescribes more bitter medicine for Dutch economy

By Laura Raun in Amsterdam

THE NETHERLANDS should continue to pare its over-sized public sector, its bulging budget deficit and high unemployment, according to the Organi-sation for Economic Co-operation and Development. In its latest Dutch economic survey, the OECD also urges further cuts in the heavy "col-lective burden" of taxes and social security premiums, and curbs on generous transfer payments that distort the econ-

Tighter criteria should be imposed for claiming jobless benefits and the linkage between the minimum wage and minimum income should be broken, the OECD recom-

"The economy is already relatively well placed to take advantage of the opportunities created by the European Single Market," the survey notes. "But prospects for meeting these proyects for meeting these new challenges would be enhanced if adjustments achieved so far could be consolidated and carried further.

The latest survey, which covers two years instead of the ers two years misted of the normal one, echoes much of the sober advice given in the past. But such bitter medicine is unlikely to find many receptive patients among Dutch politicians with the September 6 general election looming.

The survey does paint a rather rosy macroeconomic scenario, much in line with the government one published in May. Growth in gross domestic product is seen accelerating to 3.2 per cent this year from 2.7 per cent in 1988 and remaining

The economy is relatively well placed to take advantage of opportunities created by the Single Market'

stable at 3.1 per cent in 1990. Consumers will pick up some of the slack left by slowing growth in exports, spend-ing 3 per cent more this year than last. Exports of goods and services are forecast to rise by 5.7 per cent this year, but that compares with a buoyant 7.5

per cent in 1988. Both consumer spending and exports are expected to continue to expand at about the same pace in 1990 as this year. The OECD believes inflation will accelerate from 0.8 per cent in 1988 to 1.5 per cent this year and to 2.3 per cent next year, faster than government

Investment growth will taper off sharply to 5.5 per cent this and plunge to 1.1 per cent in 1990. The unemployment rate is seen as dwindling only slowly - from 8.3 per cent last year to 8.1 per cent this year and 7.8 per cent next.

The current account deficit should narrow to Fl 6.5bn (£1.8) this year against Fl 10.6bn last year, but widen again to Fl 9.5bn in 1990.

The survey acknowledges that economic performance has improved in recent years as a result of "cautious demand management policies, struc-tural reforms," domestic wage restraint and a favourable international environment.

But it argues that if greater improvement is desired then wage moderation must continue, state-debt interest pay-ments must be stabilised and general efficiency of markets must be enhanced

The housing market should be made much more flexible by gradually scrapping widespread rent controls and mas-sive subsidies for renters, the OECD contends. The labour market would function more efficiently if the educational system were better linked to the business community that school-leavers' skills matched market demand.

Constituency Profile: Cotswolds

Lord Plumb pats his ample credentials

medieval Gloucesse, under the honey-col-oured stone arches of "Chapter House, the Cathedral's Chapter House, where the Doomsday Book was conceived. The occasion: the first joint public meeting involving all four candidates in the Cotswold constituency for the elections to the European

Lord Plumb, president for the last two-and-a-half years of that institution and Tory candidate, listed his qualifications for talking about third world development, the subject cho-sen for the meeting by its hosts, the World Development

I am totally committed to it", he declared. Patting his tummy, he added that, as well as chairing last year's much publicised world food conference, leading the parliament's discussions on third world aid and being a member of the parliament's development commit-tee before he became president, "last year I lost 22 pounds in weight to raise money for intermediate technology. I'm also a patron of Farm Africa a remote part of Argentina where I've spent many weeks."

No one can match the impeccable past of the parliament's president, writes Bridget Bloom

All the other candidates could do, deflated by such experience, was to say that they, too, believed in develop-

The third world is hardly a big issue in the campaign in the Cotswolds, a huge and prosperous wedge of southern England whose wide acres, rolling hills and lush woodlands stretch from Cheltenham and Gloucester in the south west, north westwards across the stone-walled spine of the Cotswold hills themselves to Stratford-upon-Avon and Ban-

bury.

But the incident serves to describe the number one issue in the Cotswoid campaign: Lord Plumb's credentials to be the next MEP far outweigh those of his opponents. "It's a case of the minnows and the whale," said a party worker. It also helps of course that the constituency comprises seven Westminster ones, each of them returning a conserva-

tive member in the last general It will be surprising if Lord Plumb does not win on June 15, even if many voters in the constituency seem confused as to exactly what elections these are or, if they know that, then precisely what it is that the European Parliament does and

why.
For those who do know and care about the election enough to vote, Lord Plumb is known first and foremost for his experience in agriculture, one of the principal issues which was getting an airing as the cam-paign got under way last week.
As his progress round Ban-bury cattle market confirmed, Lord Plumb is exceptionally well known by farmers - he is one himself and he made his way up through the National Farmers' Union as plain Henry Plumb to become its president

for much of the 1970s. In the Cotswolds there are many mixed farms and the downturn in the fortunes of

THE PLACE was medieval Gloucester, under the honey-coloured stone arches of edral's Chapter House, e Doomsday Book was d. The occasion: the int public meeting gall four candidates in wold constituence for countryside has to offer. Lord Plumb claims for the

European Parliament and his role there some credit for the reform of the common agricultural policy and gets quite angry with his opponents who reel off "four-year-old statistics" on the size and costs of the food mountains. He reels off his own, showing how the milk lake has evaporated and the wheat and butter mountains are now molehills.

Lord Plumb's statement for

the constituency press last week (a lone local reporter ween (a lone local reporter turned up to the Banbury press conference) stressed that his campaign was being fought to keep socialism at bay. He distanced himself from the bitter criticisms by Edward Heath, the former Prime Minister, of Mrs Margaret Thatcher's approach to the Community. Publicly there was no mention of his own more temperate but equally trenchant criticisms over the last few weeks, though from an interview later

though from an interview later it was clear he remains disturbed by the negative approach of his leader.

The other candidates are putting a brave face on Lord Plumb's pre-eminence, each hoping to discover his Achille's heel. Tom Levitt, the gentlemanly young Labour candidate who fought Stroud in the general election, thought that the Tory splits on Europe, together with those amongst Liberals and Social Democrats, would at least mean Labour comes a least mean Labour comes a good second. Leslie Rowe, the bearded Democrat, emphasises the Tories' isolation in the

Strasbourg Parliament
But it is the personable Sue
Limb, the Green candidate who
seems to be having the most
fun. She is the anthor of the gently satirical series on BBC radio 4 The Wordsmiths of Gorsemere (a parody of the Lake poets) and writes a newspaper poets) and writes a newspaper column entitled Bad House-keeping, as well as one for the Good Housekeeping magazine. Her single-theme campaign, ranging from food safety to pollution by farmers and the motor car, is without doubt the flavour of the month in the Columnian so much Cotswold campaign, so much so that, in separate interviews each of the other candidates insisted that it was they, not she, who was wearing the

green mantle.

Does Lord Plumb have an Achilles's heel? He does not give the impression that he much likes the electoral hurly-burly. "I'm often treated like ly-burly. "I'm often treated like a head of state as president of the parliament", he says, adding that having "my ear pinched and being told to move on in the shopping precinct is no doubt good for my soul".

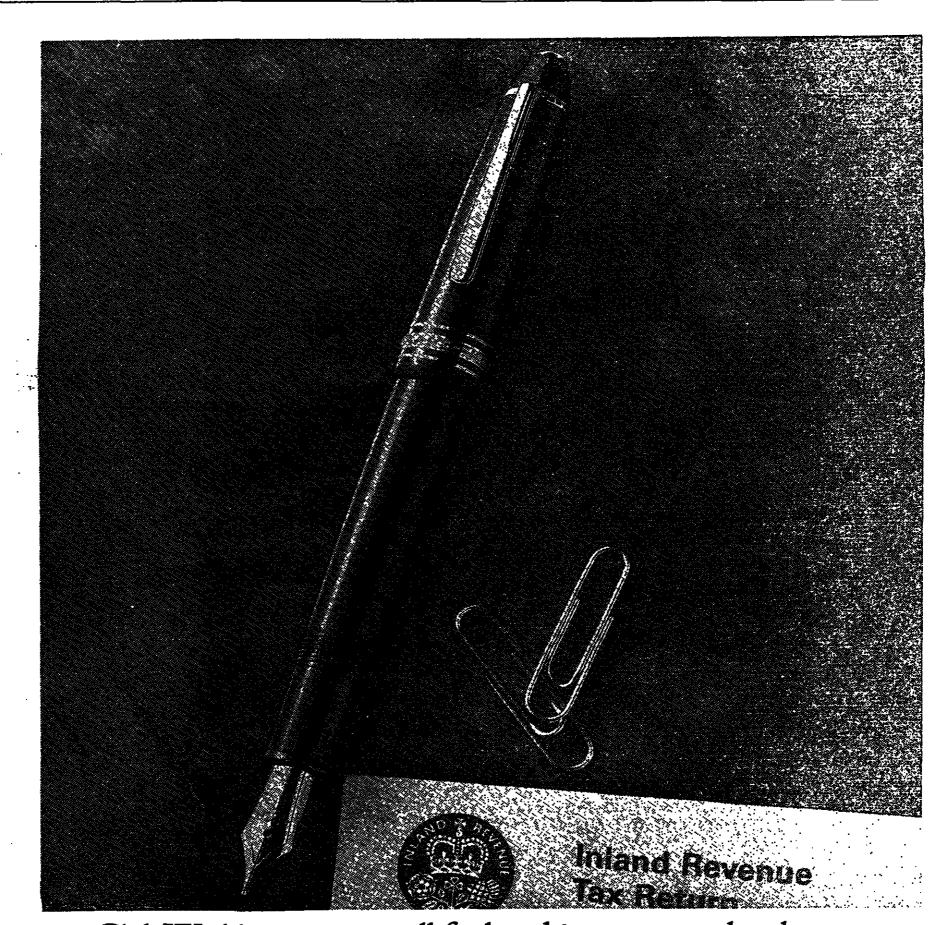
Lord Plumb says he did not join the Conservative Party until 1979 when he first

until 1979 when he first became the Cotswold MEP, because he wanted to be seen as maintaining impartiality as an NFU official. He presents his role as president of the parliament (an office he does not formally relinquish until July)

in that light too.

Barring an accident, Lord Plumb will be back in Strasbourg after June 15 – though not, he says, as president. The former President of the French Republic, Valery Giscard d'Estaing seems his most likely successor.

in that light too.



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Rumours lift spirit of a devastated people

Robert Thomson sifts fact and fiction from a Peking awash with gossip

HZ PEOPLE of Peking want to believe many things about their crisis-stricken city. There was the story vesterday about the communist party chief, Zhao Ziyang, a liberal and the man most Chinese would like to see running the country, and there was one about Li Peng, the Premier and probably the most

despised man in China.
According to the talk on the streets, Zhao, who has been under nouse arrest for alleged conspiracy, has escaped from custody, linked up with sympa-thetic troops, and is about to liberate Peking.

Li Peng – gossip and a Hong Kong newspaper claimed – has been shot in the thigh in an assassination attempt by one of his guards, who had relthe weekend slaughter. The guard himself was killed after the shooting.

That these and other rumours are widely believed

here is partly because the incredible has become commonplace in recent days, and partly because of the absence from public view of communist and military leaders.

No leader has made a public No leader has made a public statement in the past week, and Zhao, Li, and Deng Xiaoping, the paramount leader, have not been seen for two

Deng has been the subject of several conflicting rumours. A Hong Kong newspaper yester-day pronounced him dead, a claim denied by a government spokesman, and he is said to be in hospital suffering from either cancer of the prostate or a heart condition that has left him unable to run the country. These reports could be true, but as the leadership has returned to a cultural revolution-like closet, they cannot be

Reliable Chinese sources

receiving medical treatment, including oxygen, but that he was still capable of running the country. It has also been said that Deng has been toppled in a complex toppled in the prest for days is always in the prest for days in the prest for days is always in the prest for days in the prest pled in a coup by the President, General Yang Shangkun, who was almost certainly responsible for authorising the use of force against the protest-

The People's Liberation Army, too, has been the subject of many street-level stories. The 27th army, whose leadership has family ties to General Yang, is held responsible for most of the brutality, while the Peking-based 38th army, thought of fondly for refusing to obey a martial law order to crackdown on the students, is believed to be massing for an attack.

In the west of the capital yesterday, a convoy of troops was reported to have claimed that they belonged to the 38th, prompting local residents to offer them drinks and food and to clear barricades erected to obstruct the 27th. After the troops passed through, the resi-dents suspected they had been deceived by soldiers of the

Troops from the 38th are said to have entered the city twice yesterday, once from the south and later from the west, and, in the evening, they were said to have given the soldiers of the 27th an ultimatum to lay down their weapons or be

These reports represent glimmers of hope for a devastated people, a people who have become accustomed to hearing the sound of gunfire, whose offices and factories are closed indefinitely, and whose future has been suddenly over-

They are still a deflant people. Photographs of victims of the weekend's violence have been pasted to lamp posts around the city, and soldiers

The masses who had no

view about how to react to 1997

and were waiting to see what would happen will now go to one extreme of wanting to

leave or the other of wanting to stay and fight for democ-racy," said Mr Steve Chan, one

of the leaders of the Hong Kong Federation of Students

who are at the forefront of the

"If everyone goes, who will stay to contribute for Hong Kong?" asked Mr Andrew To, a

23-year-old social studies undergraduate who is the fed-

eration's secretary general. "I was born here and I feel I should contribute so I shall not

leave."
The Peking students' move-

ment and the early gentle gov-ernment reaction initially

spurred hopes that China

would become more demo-

past few days is almost impossible to estimate. An official radio report on

Sunday, broadcast once and then silenced, said that more than 1,000 had been killed. Hospital officials have estimated that 1,400 people died and stu-dents say the figure is at least

In the first official comment on casualties, a government spokesman said last night that only 23 pro-democracy demonstrators were killed, the spokesman claimed that "2,000 gangsters" were injured, 300 troops were killed, and another 400 missing, though he admitted the toll "is not very accurate."

will never be settled, though the government estimate is the most obviously wrong. There have been numerous rumours floating about the city of a massacre on Tiananmen Square in the early hours of unday, when the majority of foreigners were out of view, having been forced away at gunpoint by soldiers.
One report suggests that

5,000 or more students died when troops opened fire with machine guns on the Square. Another suggests that the thousands of bodies were then ourned and have been airlifted to a mass grave in the west of the city. Both reports are wrong. I was among the very few remaining on the square when the students were forced off by tanks and armoured per-sonnel carriers, and by soldiers firing sometimes into the air

and sometimes not.
Protesters died on the square, but the number was small. The 27th army did most of its killing elsewhere in

Time cushion only comfort for sad colony

my wife and two children and

now I am thinking of that more actively," said Mr Chan. "But

unlike some people I can afford financially to wait and see

what happens closer to 1997, and I want to stay and help build a country we are proud of. I hope the Peking Govern-ment will change and I want to

contribute here so I am not ready to go yet."

But it has also made many

people even more determined than before to obtain foreign

passports quickly as an insur-ance. Most people feel resigned to the 1997 handover and this

is making many of them clam-our for Britain to change its

There is also general acceptance that there is no alterna-

immigration laws

John Elliott on the mounting pressure for changes in the post-1997 constitution



Alone in the rain: A Peking citizen makes his anti-government feelings known

Frantic foreigners scramble to escape the chaos

By Our Foreign Staff

FOREIGN governments and businesses around the world were yesterday scrambling to get their citizens out of China's chaos as fears of civil war

Some governments including Britain chartered special aircraft for a mass evacuation and most major Western countries told their nationals to get out of China as fast as possible. Australia, Canada, the US.

all the EC states and Sweden all advised their nationals to leave. Sir Alan Donald, the British Ambassador to Peking, urged the 850 Britons in China to leave quickly, especially those in Peking. He gave refuge in embassy accommoda-tion to 60 British students on tion to 60 British students on Monday night. Yesterday he chartered a British Airways Boeing 747 which was diverted from Hong Kong to airlift some Britons out to London. Other chartered flights organised by Hong Kong, Aus-tralia, and Japan started to evacuate businessmen. journal-

evacuate businessmen, journal-ists and the families of diplomats from Peking yesterday, mainly to Hong Kong although some have gone to Tokyo. The flights were organised as a growing number of countries and companies decided to move families and non-essen-tial personnel out of Peking and other parts of China including Shanghai and the northern provinces.

northern provinces.

Companies involved include
Xerox and McDonell Douglas
of the US and Alcatel of Belgium, all of which have joint
ventures or other collaborations in Sharehai

tions in Shanghai.
The Australian government advised all non-diplomats to leave China. Senator Gareth Evans, the Australian Foreign Minister, ordered a Boeing 747 of Qantas, the national airline, to Peking to fly out Australian citizens today. Qantas engi-neers who went on strike,

grounding all scheduled flights yesterday, exempted the evacu-

In most cases, companies with only one or two expatriate staff seem not to be evacuating yet. But companies with bigger expatriate groups are pruning back the numbers. Some companies including Ericsson of Sweden are also moving fami-lies out of the southern province of Guangdong.

Around 2,000 frantic foreigners crowded into Peking airport yesterday to await the first plane out.

EC ambassadors met in Peking to decide joint action. They said tourists and businessmen should get out as last as possible on commercial flights. Some EC countries were asking national airlines to provide bigger planes to bring out more passengers on scheduled flights. The US also said it would not organise special transport for its citizens who were advised to leave as fast as possible on commercial routes. But as commercial flights were becoming fully booked Mr Jens Odlander, a Swedish Foreign Office spokes-man, said Sweden and the other Nordic countries might charter an airliner to get Nordic citizens out.

The EC diplomats also said long-term residents should leave, but it was up to them to decide. No EC embassy had yet decided on evacuation of staff. But West Germany and Greece advised families of diplomats

The West German travel agency association (DRV) said all German tourist groups would be flown out of China in the next few days and tours there would be suspended indefinitely. Mr Otto Schneiter DRV President said about der, DRV President, said about 200 West German tourists remained in China.

Governor 'to back HK passports demand'

By John Elilott in Hong Kong

SIR DAVID Wilson, Governor of Hong Kong, is expected next week to put his personal weight behind widespread local demands for up to 3.4m people to be given British passports in an attempt to bolster flagging confidence

in the British colony.
He will do this publicly when he gives evidence in London to the House of Commons Foreign Affairs committee. He will also air other Hong Kong demands relating to the situation in the colony which reverts to Chinese sovereignty in 1997.

There is recogning angage and anyther

"AFTER SEEING the student

movement in Peking I am more

proud to be Chinese and so I want to use my Chinese name." said the managing director of a Hong Kong con-

struction company, writing his Chinese name of Chan Ka-Kui

on a visiting card in place of

the printed westernised version of K.K. Chan.

Last night Mr Chan, 39, led a

march of 100 surveyors to the local Xinhua News Agency

offices, the de facto Chinese

embassy in Hong Kong, to add floral tributes to the mountain

of wreaths to the Peking dead piling up outside the building,

and to band over a letter of

flood tide of emotion that has swept through this British col-

ony in the past few weeks, and especially the past few days.

His reaction is typical of the

in Hong Kong following the Chinese army atrocities in Peking, although the local stock market recovered yesterday from a dramatic slump on Monday when the Hang Seng index fell by just over 21 per cent to close at 2,093.61. Yesterday it recovered by 56.1 points and closed at 2,149.71.

The sharp drop in confidence is demonstrated by a rapid increase in the number of preliminary approaches to foreign consulates for emigration details. The Australian consulate, which normally handles about 160 inquiries a day, had 250 a day last

week rising to 400 yesterday.

Demands are starting to be aired by a broad spectrum of opinion that Britain should cancel its 1984 agreement with China for the People's Liberation Army to be stattoned in Hong

Kong after 1997.

There are also renewed demands for the UK to give a right of abode in Britain to up to 3.4m people who would qualify as its full citizens but for immigrations laws passed since the 1960s. The British government has resisted calls to issue these people passports because, it argues, it could not pass the

communist China.

"Is one country two systems

realistic - it's all we've got isn't it?" says Mr David Gledhill,

chairman of the John Swire

and Sons in Hong Kong, one of the colony's big groups. "There

is no way Britain is going to hang on here, so we have to make that work. But the UK must provide passports as a last bolt-hole because then peo-

ple can use that to rebuild con-

fidence - otherwise watch the

Mr Simon Murray, managing director of Hutchison Wham-

poa, another of the biggest

groups is even more outspo-ken. "The calm voice of Sir Geoffrey Howe from his deep armchair about not worrying

about the future has been

blown away by gunfire. Britain must do something that will

give us some heart. This is the

UK's moment to rethink the

immigration figures soar."

necessary legislation through Parlia-

However there is a growing body of opinion in Hong Kong opinion, ranging from British businessmen to liberal Chinese - born democracy campaigners, who argue that the recent events in Peking should be a sufficiently strong catalyst to change Parliamentary opinion.

Sir David is also expected to give some support to other local demands relating to the Basic Law - the colony's

ports, and now heads one of Hong Kong's new political par-

"I don't think it is realistic to

expect to have two systems,

with a democratic government here inside a country which is not a democracy," he says.

"But we have got to work within the Peking framework

because, in my view, we can do nothing against China unless we want to have a revolution.

So we must keep cool and realise we are part of China."

However, there are growing demands for improvements in the Basic Law which will gov-

ern Hong Kong after 1997 and is now in its second draft. A

final draft was due to be pre-pared in Peking by the end of the year but now will almost

certainly be delayed.

There are general demands for the Basic Law's introduc-

tion of universal franchise

British passports and a stronger Basic Law to act as a bul-wark against Peking and pro-tect the concept of "one

There is also some relief that

Hong Kong is having to face up

to all these problems now. "It's

fortunate for us that all this is happening eight years before 1997 so that there is a time

cushion for the government in

Peking to change again," says Mr Lo. "Otherwise there would have been a bigger crisis here."

country two systems"

Disruption in provinces poses threat of nationwide violence

By John Elliott and Colina MacDougali

PEKING'S hard-line leadership is facing widespread unrest throughout China as a result of the weekend massacres in Peking Major cities have been paralysed and the economy hit by transport freezes and worker absenteeism. So far troops have not been used to subdue the dissidents, but the prospect of nationwide vio-

ence is coming closer. China's largest city, Shangdisruption in the 40 years of communist government, according to Shanghai radio. Local officials were quoted as saying that the municipal economy was on the brink of collapse. Diplomatic observers estimate that production may have slumped by 50 to 60 per cent in what is China's most mportant economic and indus-

trial centre.
The situation was becoming increasingly tense, though the army, which is in evidence around the city, had not moved into action. On Monday, 123 road intersections in the city centre had been blocked with barricades and more than 500 buses had their tyres let down, Shanghai radio said. City authorities told western missions that they were planning to act to end the disturbances.

In Guangdong, the southern province adjoining Hong Kong, the situation yesterday was calm, though industry was disrupted. No military movements

have been reported in the provincial capital, Canton, though on Monday students occupied three river bridges and blocked railway lines.

In Nanjing, on the Yangtse river in central China, resi-dents reported that students

and workers were demonstrat-ing on the streets and blocking major transport systems. A student leader from the federa-tion of Nanjing Universities strike in the city. "We heard military forces are moving in and people were told to stay inside," said one resident. On Monday demonstrations, including mock funerals, completely blocked the city centre and drivers refused to drive in further than the suburbs.

In Chengdu, provincial capi-tal of Sichuan, local radio reported that a "gang of crimi-nals" burned down south-west China's largest department store and looted 21 shops. A crowd set fire to a police station, burned fire-fighting trucks and fought the police with bottles and stones. Clashes between students and

troops were reported. In the central Chinese city of Wuhan, demonstrators blocked China's main north-south rail-way line for the third day run-ning, holding up dozens of trains. This is certain to cause severe disruption nationwide to industry and food supplies.

More than 10,000 students and

workers were out on the streets yesterday protesting, chanting anti-government slogans and praying for the slaughtered Peking students. Lanzhou, capital of Gansu province in the north-west,

saw continued blockages of roads and intersections yester-day by tens of thousands of people, and students held up troops outside the city. You must be careful, don't come out," said one resident. Hong Kong radio and television issued unconfirmed reports that as many as 200 protesters had been killed by security

forces in the city.
In Xian, Shaanxi province, also in the north-west, workers and students blocked the city gates early yesterday morning. The Hong Kong Ming Bao reported that the crowd on Monday exceeded 100,000 and that many workers were on strike. Demonstrators said troops were ready to attack on the west of the city and foreign students at Xian universities

were preparing to leave. In Shenyang, north-east China, students marched to mourn victims of the Peking massacre, and large crowds obstructed traffic on the road to the airport. Demonstrations have also been reported in Har-bin, Changchun and Dalian in the north-east, and Qingdao, Loyang and Tianjin in the

tive to the idea, initially put forward by Peking and then accepted by the UK in the 1984 Sino-British joint declaration on the handover 1997, that With large marches and dem-onstrations of over 500,000 peoeded up, plus more proviaccord with China." ple - another takes place today - a previously latent Chinese nationalistic feeling sions to guarantee human rights and the legal autonomy However there are also more ily assimilate Hong Kong. Last there should be "one country, despondent voices because peo-ple doubt the UK's backbone. This view is strongly held by weekend's army atrocities This would mean that Hong Kong (as well as the Portuof Hong Kong. Demands are also being have made many people - es-pecially young people - even more nationalistically deterhas been revealed. Mr T.S. Lo, a prominent lawyer who resigned from the colony's guese enclave of Macao in 1999, revived that China's People's But contradictory reactions revived that China's People's Liberation Army should not occupy garrisons in Hong Kong but be stationed in the adjacent Chinese province of Guangdong. This is being argued by public figures as disparate as Mr Gledhill and Mr Martin Lee, the arch-liberal campaigner, who also wants the UK to renegotiate the Sino-British joint declaration. From this welter of views it and maybe Taiwan later) would continue its present cap-italistic system and slowly mined to help the Peking executive and legislative coun-cils in 1984 in protest at the UK democracy movement. playing a mixture of hopes and fears about life after 1997 when Hong Kong returns to Chinese CHINA Two months ago I was thinking I might emigrate with develop its democracy within refusing to issue British pa ACIFIC OCEAN 500 miles From this welter of views it is emerging that it is the youth who are being most politicised Moscow condemns world outrage and, perhaps because many of them may never be able to obtain foreign passports, want to fight nationalistically for democracy inside China. Those By Quentin Peel in Moscow in their twenties or older want

THE Soviet Union yesterday condemned international pressure on China, warning that it would only inflame passions, but appealed for "wisdom, sound reason and a balanced approach" from the Chinese authorities.

The resolution of the Congress of People's Deputies urged China "to continue along the road of economic and polit-

ical transformations."

The resolution was drafted by the presidium of the Congress, chaired by Mr Mikhail

Gorbachev, and clearly seeks to resolve the acute Soviet embarrassment over the turmoil in Peking. The students accused by the Chinese author-ities of being "counter-revolu-tionaries," were carrying slotrumpeting Mr Gorbachev's reforms.

Ian Rodger adds from Tokyo: Japan yesterday declined to take sanctions against China. "We would like to watch the situation for some time and collect more informstion before deciding on our

litsuzuka, Foreign Minister. Negotiations have been halted on two large loans, \$120m for Sinopec Petrochemi-cal by Dal-ichi Kangyo Bank with five other banks, and \$25m to the People's Bank of China, China's foreign exchange bank, by the Asian Development Bank and six Japanese hanks.

approach." said Mr Hiroshi

Japan's huge aid programme - it provides 70 per cent of China's bilateral aid may also be reviewed.

Echo of Peking: Financial workers take to the streets in the business section of Hong Kong yesterday, their banner proclaiming Those who spill blood must pay with blood

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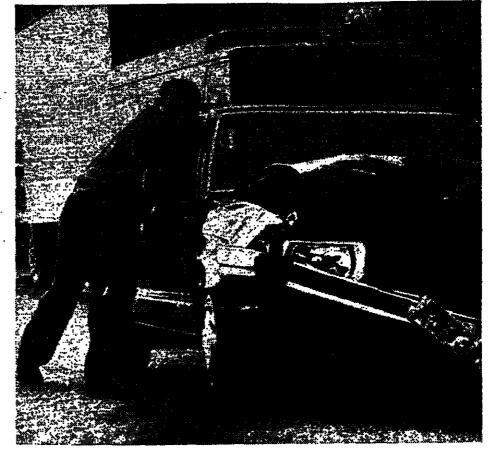
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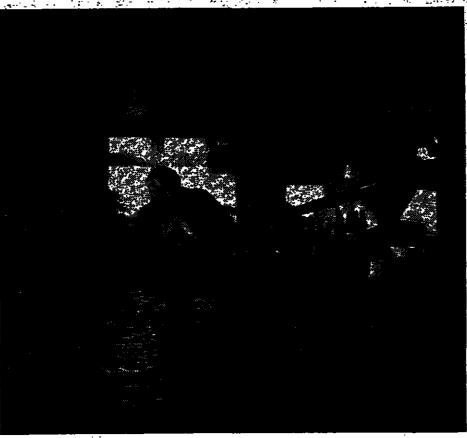


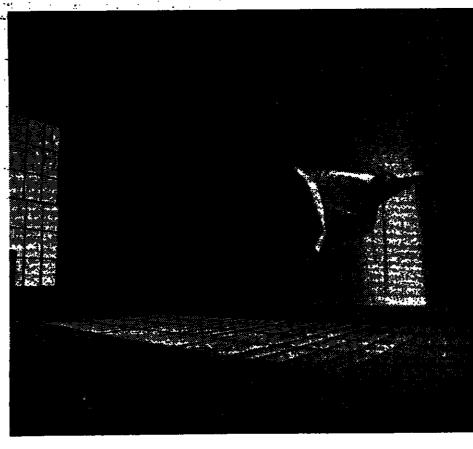
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GUARDIAN ROYAL EXCHANGE
One step ahead, then another

By Julian Ozanne in Addis Ababa

PRESIDENT MENGISTU Haile Mariam of Ethiopa said yester-day that 18 senior military officers were killed in last month's foiled coup attempt which had taken the Government com-

pletely by surprise.

Speaking to Western reporters in Addis Ababa for the first time since the aborted coup. President Mengistu said a further 176 senior officials and military men, including 24 gen-crals, were being held by security police.
"The whole affair was con-

spiratorial. It was only a handful of leading generals who started the whole thing," he said. "They had no following from the army and from the people nor had they any social have at all." "It could not have been pre-

dicted that they would deny or sell out the supreme trust reposed in them." he added. Dressed in an immaculately tailored electric blue suit in the style of Mao Zedong, President Mengistu appeared confident and relaxed as he addressed reporters in Amharic for three hours, occa-sionally correcting his inter-

He denied that a new peace initiative launched earlier this week aimed at solving the 28-year-old civil war with secessionist Eritrean rebels was a public relations gesture.
"I don't for a moment think

this is an exercise in window dressing . . . We have not baked a cake to distribute to many groups but what we have to do is to sit down together and bake a cake together.

Monday's peace agreement called, for the first time, for no preconditions to be set down before talks with rebels. But despite this President Mengistu reiterated yesterday that any solution must be found within the present terri-torial unity of Ethiopia – a condition which has been the prime stumbling block to peace

"All of us in Ethiopia rang-



ing from myself down to any body and the entire leadership is not mandated to negotiate with anybody the secession of any one component of Ethio-pia, nor its independence. This is not negotiable at all," Presi-dent Mengishi said.

He also denied that the peace offer was the result of pressure exerted by the Soviet Union, which has shored up the regime's conflicts in the last 12 years with an estimated USS6bn of military assistance. The Soviet leadership and

people have been with us in all the struggles we have waged . . there wasn't a sin-gle incident in which we did not consult our friends. But that is not pressure," he said. President Mengistu said it was unfortunate that Ethiopian relations with the US had "strained or soured" under the Reagan Administration and looked forward to the "favoura-ble situation" which the new

The changing international climate of rapprochement and detente between East and West was more than encouraging, he said, both for world peace and for a resolution of Ethiopia's internal and regional conflicts.

Administration had brought

Christina Lamb looks at the competitive business of exporting Islamic ideology

HE PAKISTANI doctor allows himself a small grin as he waves good-bye to the party of Arabs in billowing white robes boarding the plane at Quetta Airport, Islamabad. It had been a successful day – after hunting sandbirdsin the Baluchistan desert and a quick tour of a nearby Saudi-funded hospital, the visitors signed cheques for the Afghan resistance. One businessman from

Kuwait agreed to earmark all profits from three of his industries for the cause - about \$300m a year. The doctor is a representative for Saudi Red Crescent, the Arab World equivalent of the Red Cross. He and his brothers have set up hospitals and an orphanage for victims of the war in Afghan-

Of all 96 relief organisations operating out of Pakistan, the Red Crescent is the most omnipresent, its sign visible at every refugee camp. Most western correspondents covering the war have feasted on Saudi dates on the frontline and every year after the Haj pil-grimage, a convoy of 737s arrives laden with carcasses for the refugees. But there is another, more

insidious side to the operation.
The businessmen are Wahabis, believers of a fanatically puritanical form of Sunni Islam, demanding a return to the earliest days of Islam. They see their involvement in Afghanistan not just as a fight against communism, but also as an opportunity to get Wahabism recognised as a legitimate sect, and as a base from which to export subcontinent

entire subcontinent.

Though closely allied with the Saudi Government, Wahabis do not represent the country's official policy which is to support all the resistance groups through Pakistan's military intelligence (ISI), matching the support of dellar for do ing American aid dollar for dol-lar, about \$2bn so far.

Prince Turki Bin Faisal of the Saudi royal family pays frequent visits to Pakistan, usually liaising with former ISI chief General Hamid Gul. Intelligence sources claim that Saudi pressure has been a major factor in favouring the



more radical groups. It was through Prince Turki that Gen Gul persuaded the Saudi Government to be the first to recognise the mujahideen government, set up in February to oppose the Soviet-backed Kabul regime of President Najibullah.

The Wahabis are less subtle, trying to directly infiltrate the resistance, using cash in an effort to ensure that "the mujahideen have the right ideology." Their often clumsy efforts are laughed at by the mujahideen. Commander hammed Inkandahar says: We take their bags of money then shoo them away. If the Soviets could not impress us by force, the Wahabis won't do

t with money."

The Wahabis aim to purge
Afghanistan of its centuries old traditions of sufism, saint and shrine worship. Mullah Mohammed, a commander from the fundamentalist party of Maulyi Yunus Khalis, describes Wahabis as "militant

"Originally we accepted their money because we needed it. But we don't need anyone to tell us how to be good Muslims."
In Peshawar, headquarters of the resistance, a group of

young Arabs wearing Palestin-ian-style headscarves are in

the jihad (holy war). Calling themselves salafis or "follow-ers of the great ancestors," they are backed by business-men or religious foundations. Most of them are students from Saudi Arabia, Algeria, Pales-

tine, Sudan, Kuwait, Egypt, Libya, Yemen and Morocco. The volunteers join the most Saudi-dominated group such as Ittehad-Islami of Abdul Sayyaf, a former Kabul University professor, who studied in Cairo's Al-Asghar University, the cen-tre of Islamic revolution in the 1960s and 1970s. Anxious for involvement in

Afghanistan, Sheikh Bin Bas, a Medina-based leader of the Wahabis, picked up Sayyaf in 1981 and gave him an initial \$25m to start his own party. Sayyaf's party has so much money that their bases have generators to keep fighters warm. Wahabi patronage of Sayyaf along with Sandi pres-sure on ISI have proved so effective that in the shura, convened in February to choose an

interim government, he was elected prime minister.

Shura participants claim they were offered large sums by Saudi representatives to vote for Sayyal According to Pakistani Foreign Office sources and diplomats, the Saudis blocked the involve-ment of the Shia-dominated intense discussion.

They are part of around 700

Arab volunteers involved in

Iran-based mujahideen because they would not vote for a Sunni extremist such as

Sri Lanka takes a gamble with troops ultimatum

Mervyn de Silva in Colombo on why the decision to order the Indian forces to leave may backfire

member of the Hezbi Islami at a mujahideen training camp near Kandahar. The various religious sects and Islamic organisations see their involvement in Afghanistan not just as a fight against communism, but also as an opportunity to get their beliefs recognised and as a base from which to export their ideology to the entire subcontinent.

Sayyaf.
While Saudi government money is channelled only to the seven parties of the Peshawar-based resistance alliance, Wahabis also fund the more radical Able Hadith, a party founded in 1984 by Jamil Ur Rehman, a religious scholar who claims to have 9,000 men. Rehman attracts the more extreme Arab volunteers and, banned from the alliance, he has set up his own rival gov-ernment in the liberated province of Kunar. He reckons to do the same in Jalalabad where he says he has 3,000 men involved in the present battle. According to Rehman: "It is essential that the mujahideen have the correct ideology." Although Arab volunteers have been coming since 1985, concern over their role only emerged publicly with the recent attack on Jalalabad. The Arabs are concentrated in Behsud where fighting is heaviest, and there have been numerous reports of Wahabis brutally slaughtering Afghan soldiers who surrender, raping village women and threatening west-

entering the area.

Mujahideen based around the south western city of Kandahar are furious at the build up of Wahabi forces in the nearby town of Spinboldak where they say a recreation and training centre has been

ern journalists as well as pre-venting aid workers from

built for Arab volunteers and reports of their activities are damaging negotiations for

Last month, 10 Arabs were killed by Kandahar mujahi-deen and 30 arrested after criticising the guerrillas for venerating graves of moderate fighters, and breaking a flagpole used to mark graves of what are seen as martyrs.
The Boldak-based Arabs

seized a commander in revenge and the situation is so tense that Saudi's Red Cresecent has warned Arabs not to go near Kandahar, while in refugee camps in Baluchistan, Afghans are told they will become heroes of the revolution if they kill an Arab. Pakistan's Foreign Office is so worried that it is trying to stem the influx of volunteers, but admit it is difficult given their liberal visa pol-icy to fellow Moslems. The Wahabis main competi-

tors in infiltrating the resistance are the Ikhwanis or Mus-lim Brotherhood, a militant organisation originating in Egypt. It has close relations with fundamentalist parties in the Moslem world including Jamaat Islami in Pakistan, and Hezbi Islami and Jamiat in Afghanistan. They too put in large amounts of money but their involvement is more political than military, seeking influence through schools and hospitals, though according to mujahideen and diplomatic sources they have set up a camp training terrorists to be

sent to Europe.
At present, all the Arab organisations have a common interest in preventing the involvement of Shia-dominated Iran. They fear that with Iran perceived as having essentially failed in the west, it will turn its attention to the east and Afghanistan, a fear substantiated by large numbers of arms pouring into Shia regions of Afghanistan from Iran - some 62,000 guns last month alone.
Said a western diplomat in
Islamabad: "With the Soviet
withdrawal, the situation has
got more complex. It is no longer just an east-west conflict.
The struggle for who is to dom-inate Islam is now being played out on the battlefields of Afghanistan."

Namibia encourages return of exiles

By Jim Jones in Johannesburg

African South Government has opened the way for more than 41,000 Nami-bian refugees and exiles to return home by repealing many of the territory's security and apartheid laws and declar-ing a general amnesty for returning exiles.

About 25 political prisoners will also be freed under terms of the amnesty. The first exiles are expected to leave their camps in Angola and Zambia next Monday and be flown to Windhoek and other northern-Namibian towns in UN chartened in the state of the

tered aircraft.

In Windhoek yesterday Mr
Martti Ahtisaari, the UN's special representative in Namibia,
said the exiles would all return over the next six weeks in time to participate in the November 6 elections for a constituent assembly. He added Professor Carl Norgaard, an independent Danish jurist, had been appointed by the UN to arbitrate any disputes about which prisoners jailed by the South Africans should be considered

criminal or political.

The laws repealed yesterday are some of those identified by the UN as impeding free and fair elections in terms of the UN's resolution 435. They include some introduced more than half a century ago based on racial classifications as well as those permitting detentions without charge or trial and censorship. Other laws identified by the UN are due to be repealed within a few weeks.

There is also a provision allowing parties participating in the November election to call on Mr Louis Pienaar, the South African administrator

general, to repeal other laws which interfere with the free Before the exiles return the staunchly-Swapo northern part of the territory has been in tur-moil. Almost 260,000 Owambo school pupils have beycotted classes for the past three weeks calling for the with-

two-front war that Sri Lanka's small army cannot fight. In that event, the future of

both the presidency and Sri Lanka will be even more bleak. Police used tear gas to dis-perse hundreds of students.

mostly Moslems, who had stoned the Maradana police

station opposite Zahira coilege,

the leading Moslem school in Colombo, for the second time

The Moslems are protesting

against killings and arson in

in a week.

Violence in Punjab leaves five dead

FIVE PEOPLE were killed yesterday in fresh guerrilla violence in India's Punjab state, where Sikhs have been battling for an independent state of Khalistan for the past seven years, Reuters reports. Guerrillas hijacked a bus in Punjab shooting two passengers dead and seriously injuring two others, while three people were killed when guer-

rillas shot at a public transport van, according to local reports.
The latest bloodshed brought this week's death toll to 10. Five people died in violent incidents on Monday in Punjab, which is plagued by Sikh

Yesterday prayer services were held in the Golden Tem-ple in Amritsar marking the fifth anniversary of the storm-ing of the hollest Sikh shrine by Indian troops to flush out

extremists. Despite the fresh violence Prime Minister Rajiv Gandhi told migrants from Punjab that caim would return to the area. He said the Covernment had broken the back of the separatist movement and that he would like to see a time when people from other parts of India could safely settle in

The week's violence also claimed the life of Sukwinder Singh, a self-styled general of the Khalistan Commando Force, who was killed by police on Monday in what was described as a "breakthrough". He was wanted for hanging four Hindus after the January executions of two Sikhs convicted of assassinating former Prime Minister Indira Gandhi

A total of 834 people have died in terrorist violence in Punjab this year, and more than 2.500 were killed in 1988. India test-fired an home-produced surface-to-air missile on Monday which is expected to be inducted for military use from next year, agencies

The missile, with a range of 25km, was reportedly fired from the Chandipur range, 1,200km (745 miles), south-east

It was the ninth test firing of the Trishul missile, whose name means trident in the Hindi language, since work on the project began in 1983. Monday's firing comes two weeks after India successfully test-fired its first mediumrange ballistic missile from the same launch site.

RESIDENT Premadasa's announcement last week that the 45,000

strong Indian peace-keeping force (IPKF) must leave Sri Lanka before July 31 took the entire diplomatic community in Colombo by surprise and annoyed the Indians, who feel that they should have been onsulted on a bik In itself, an Indian troop pull-out is not necessarily a JVP stronghold. matter for controversy since Mr Rajiv Gandhi, the Indian Prime Minister, told a top-level

Indian army conference in Delhi a month ago that he was planning to withdraw "the bulk" of the IPKF.

Most observers here felt that
it would be done well ahead of
the forthcoming Indian election campaign. Mr Premadasa appears to be pre-empting the extremist Sinhala-Buddhist JVP which has been insisting that the Indians must leave. He made the announcement

at a temple ceremony at the start of June, the month of Poson, the festival celebrating the introduction of Buddhism to Sri Lanka by a Buddhist pil-grim-monk, Mahinda, from India.

The JVP had already launched its "boycott India"

campaign which was to reach its climax on June 14, the JVP's 25th anniversary.

Although the JVP has only asked all patriotic Sri Lankans to boycott Indian shops, banks and business establishments and not to use Indian goods, the campaign has taken a viobuses and lorries have been set on fire in the deep south, the

Indian goods have been pul-led out of shops and special police protection has been given to prominent Sri Lankan citizens of Indian origin. On a request from the Indian High Commission, banks, hotels and buildings identified as Indian-

INDIA and Sri Lanka yesterday headed off an imme-diate confrontation over Sri

Lanka's demands for the with-drawal of Indian forces from

the country, David Housego

writes from New Delhi. Two days of talks between

the two governments in Delhi ended with Sri Lanka setting a

more flexible timetable than last week's demand by Presi-

Colombo will host the South Asian Group conference later this year. To do so, while foreign troops are present in Sri Lanka, will be a slur on our Although there are many qualifying ifs and buts in his statement. India was bound to

owned or managed are guarded by armed police. Mr Premadasa has given another reason for his decision:

read it as an ultimatum. It was certain to prompt a firm response from a country now enjoying the title of a regional superpower.
The President's advisers,

however, wonder whether Delhi can afford to antagonise its small southern neighbour

dent R.Premadasa that the

Indian Peace-keeping Force should leave the country by

July 29. But Sri Lankan diplo-mats said that Mr Bernard

Tilakaratne, the Sri Lankan

Foreign Secretary had told Delhi that the Indian troops

would have to be out by October when the summit meeting

of South Asian nations is due

to be held in Colombo.

when it is already locked in a bitter dispute with Nepal in the north. One theory is that Mr Premadasa has made a secret deal with the Tigers, the most pow-

erful of the Tamil guerrilla groups, who have defied the Indian peace-keeping forces for nearly two years. He may be ready to hand

over the north-east provincial council, now controlled by the pro-Indian EPELF Tamil group, to the Tigers, who are anxious to get the Indians off their backs.

Mr Premadasa wants the IPKF withdrawn so that he can start to tackle the fanatical JVP in the south without their

The Sri Lankan argument is

that growing hostility in the country to the presence of

Indian troops would make it impossible to hold the meeting in Colombo if the Indians had

not left by then. The extremist Sinhalese organisation, the JVP, has warned the Indian

business community that they

should be out by June 14.

being able to drum up popular support on the issue of the presence of a foreign power's armed forces on Sri Lankan

The Tigers, housed in the Hilton Hotel in Colombo, have held month-long talks with the President and his senior minthe Tigers very well say they are taking Mr Premadasa for a

the best way to treat a cocky Sri Lankan leader was to give

If Mr Gandhi decided that him what he wants, and withdraw the Indian army, Mr Pre-madasa might get what his predecessor, President Junius Jaywardene, feared most - a

in Delhi with a message from

President Premadasa, saw Prime Minister Rajiv Gandhi

and other senior members of the government. After the talks, an Indian Foreign Office

spokesman said that India virtually ruled out a withdrawal of its remaining 50,000 troops by the end of July but reiter-

ated its desire to pull out its forces at "an early date".

the ethnically mixed eastern province. They blame assorted Tamil armed groups and accuse the Indians of collusion or wilful negligence. Both Moslem and Sinhalese communities in the province have demanded the redeploy-INDIA AND SRI LANKA SIDESTEP IMMEDIATE CONFRONTATION

ment of Sri Lankan troops.
Since the July 1987 "peace
accord", security in the north
and east has been an exclusive
IPKF responsibility.
An anxious Colombo is
matching reactions in the An anxious Colombo is watching reactions in the neighbouring south Indian state of Tamil Nadu, the home of 50m Tamils. It is now governed by the DMK party, the authentic voice of Tamil nationalism, and the first party in independent India to raise a

in independent India to raise a

separatist banner.

Gaza residents must carry new ID cards to work in Israel

By Hugh Carnegy in Jerusalem

trol over the movement of Palestinians in and out of Israel. The introduction of the cards meant in part to prevent the

18-month uprising in the occu-pied territories spilling over Israel's pre-1967 borders and in part to punish those suspected of involvement in the intifada from reaping the benefits of employment in Israel. A three-day-old curfew on

the Gaza Strip's 650,000 inhabitants, the latest in a recent series of such curfews, was lifted in two Gaza villages yesterday so the first 1,000 new cards, which supersede previous less stringent identity systems, could be issued. Eventually, all Gazan Palestinians over the age of 16 wishing to travel to Israel to work

or to visit will be required to show the card. Those convicted of involvement in the uprising, or of offences such as non-payment of taxes, will be denied a The authorities have said

they want to extend the new

system to the 1.7m inhabitants of West Bank, although they

THE ISRAELI authorities yesterday began issuing new computerised identity cards to residents of the Gaza Strip in a marked extension of their control over the movement of Police and mourners clashed at the program of the program of their control over the movement of Police and mourners clashed at the program of Police and mourners clashed at the police and mourners have to show their cards to be allowed to travel on. The cards have a magnetic strip so sol-diers can check them through a computer if required and pick out suspects.

The cards bear the words "entry permit for Israel" and carry the holder's photograph. They are colour coded according to the area in Gaza the holder comes from.

The new system was announced last month after a surge in violence in Gaza and a number of incidents within Israel itself, including the death of a soldier who the authorities suspect was murdered by Gazan Palestinians.

Palestinians have complained it is discriminatory and will restrict their ability to work in Israel, the main source of income for the impoverished Strip since the intifoda paralysed local industry. Thousands of Gazans cross the border to jobs in the Israeli construction industry, agriculture and the municipalities But a counter argument says

that those holding a valid card

the end of an otherwise peace-ful funeral for Omar al-Qas-sem, a prominent Palestinian figure who died of kidney fail-ure on Sunday after 21 years in an Israeli jail.

Mr Al-Qassem, 42, who belonged to the Democratic

Front for the Liberation of Palestine, was sometimes dubbed the "Mandela of Palestine". He was captured in the West Bank in 1968 while leading a band of armed infiltrators from Jordan. Speakers at the funeral on the Temple Mount in the Old City of Jerusalem contrasted the refusal of the Israeli authorities to release al-Qassem with the reduction by President Chaim Herzog yesterday of the sentences of three Jews jailed for killing four Arabs at an Islamic college in

Hebron in 1985. President Herzog reduced the sentences of the three Jews to 10 years after they had expressed their honest regret for their crimes, a spokesman said. It was the third time their life sentences had been reduced since they were convicted four years ago.

Pre-poll India talks left but moves right Gandhi's government prepares for a more liberal economy, writes David Housego HILE there is a distinct leftward tilt in the rhotoric

V the rhetoric of pre-election India these days, it is becoming clear that if Prime Minister Rajiv Gandhi's Gov-ernment is returned to power economic liberalisation will be given a firm push. This emerged at a three-day briefing in New Delhi for economic editors by ministers and senior officials where the emphasis was far from the pop-

ulist welfare programmes that have been dominating the headlines. There was talk of cutting central government subsidies, easing the 40 per cent ceiling on foreigners' equity holdings in Indian companies, allowing Indian companies to raise equity capital abroad, revising the monopoly regulations that restrict the growth of the larger Indian groups, and raising funds through the partial privatisation of the more via-ble public sector companies.

The pace of such change will clearly depend on the size of Mr Gandbi's majority - if he wins - and the power of the contesting lobbles in the aftermath of the election. But the Planning Commission, which is in the final stages of drafting the outlines of the Eighth Five Year Plan (1990-1995) is count-

ing on a big boost to resources from selling up to 25 per cent of public sector companies. On the possibly optimistic calcula-tion of one official this could raise up to Rs126bn (£5bn).

Mr S.B. Chavan, the Finance
Minister, himself spoke of the
need to cut subsidies which currently account for 3.5 per cent of gross domestic product.
This would be a part of a strategy – one long urged by the international Monetary Fund

and the World Bank - to cut the budget deficit to 5-6 per cent of GDP. In recent years the deficit has been as high as 8-9 per cent, with a consequent explosion in the size of the domestic debt and interest repayments, though it has come down to 6.8-6.9 per cent this year, largely because of the record 9 per cent growth of real GDP. With the election due this

year, officials are vague about possible changes in the FERA regulations (which govern the level of equity holdings by for-eign investors and over which the US is now threatening trade retaliation) and in the Monopolies Act. But these are undoubtedly up for revision and, in the case of domestic companies, the changes are seen as essential in accelerating the vast investments needed in the petrochemical sector.

There are exceptions to this liberalisation trend. With Mr Sam Pitroda, the controversial US trained telecommunications engineer recently been given full powers in this sector, the manufacture of electronic switching equipment will become an Indian monopoly.

Pressure will grow for liberalisation because on its own the Government does not have the means to diminish the bottlenecks that threaten growth

Mr Pitroda intends to develop his own C-DOT switching technology, thus barring the door to companies such as Alcatel which had hoped for a larger share of the lucrative Indian

market. Equally the Indian oil ministry is fighting a rearguard action to keep foreign oil exploration to offshore areas and refining to the public sector. But almost certainly the public sector does not have the funds or the manpower resources on its own to manage the vast development programme needed to reduce oil imports. What emerges from a full

survey of the economy is that pressures for liberalisation will grow because the Government on its own does not have the means to diminish the bottle-necks that could strangle

higher growth.

The classic case of this is the road-building programme. On present plans government funding is about a tenth of what is required to give the country a proper highway network. The result is that India's dismal road system will almost certainly get worse over the

next five years.

In the oil sector crude production will grow by 36 percent over the next five years to 47m-50m tonnes a year. But because consumption is rising by 7-8 per cent a year, imports of crude and products will grow by 47 per cent to more than 31m tonnes.

Time and again officials referred to "the very large degree of inefficiency in the system". Of \$30bn of committed World Bank assistance. only \$18bn have been utilised. The dilemma the Government faces is that unless it can

reduce the infrastructure bot-tlenecks in the economy, there will be a slowdown in growth and an increase in inflationary pressures. But higher levels of expenditure and increased cap-ital imports risk putting fur-ther strains on the balance of

payments. Officials describe the existing level of current account deficit of more than 2 per cent of GDP as unsustainable. India has accumulated foreign debts of about \$60bn with a debt service ratio of about 24 per cent. Exports rose in dollar terms last year by 15 per cent and have been increasing even faster in the first months of the

current financial year.
But it is uncertain whether this trend can continue in the face of the nigh level of domestic demand and rising private sector investment. The trade deficit worsened last year to Rs740bn. If that situation continued, there would be powerful lobbies pressing for a tightening of import controls.

The technocrats would almost certainly favour obtaining cheaper borrowing through the IMF. Policies are already being put in place that tie in with IMF requirements. But before the election a further IMF loan remains a taboo sub-

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Turkey

opens way

defence deal

THE Turkish Treasury's agreement on the terms of

\$30m worth of commercial funding has opened the way for a \$1bn project for local

manufacture of armoured com-

bat vehicles in Turkey. Prelim-

inary agreement on the scheme was reached last year with a venture of the US FMC

Corporation and Turkish con-

the scheme has been reported

to be in financing difficulties.

It is a key component of the ambitious Turkish programme

to found an indigenous defence manufacturing indus-try overseen by the Turkish

government's Defence Indus-try Development Administra-tion (DIDA).

The \$30m covering the sup-ply of US services and equip-ment had to be sought from commercial sources because

the Export Import Bank of the

US (Eximbank) does not sup-port military deals, and the project falls without the pur-view of US foreign military

Export credits from the

sales (FMS) credits.

Since then, at various stages

for \$1bn

By Jim Bodgener in

Ankara

WORLD TRADE NEWS

Seoul talks its way out of the Super 301 net

campaign aimen as ou congressmen, officials, media and academic circles appears to have been the key to South Korea's success in avoiding being listed under the "Super 301" provisions of the new US trade law.

Six separate groups of South Korean officials and parliamen-tarians paid visits to Washington and other cities armed with well-produced material citing the country's progress towards open markets and a more "responsive and responsible" trade relationship with

Maggie Ford reports on South Korea's lobbying effort against US trade curbs

The lobbying effort involved the deputy Prime Minister, the Minister of Trade, the head of the country's trade promotion body and the Foreign Ministry, along with national assembly committees in a co-ordinated effort over four months.

Its success has gratified the government of President Roh Tae Woo, which continues to face strong criticism on the political front during the country's bumpy transition from authoritarianism to democ-

Politics appears to have played quite a strong role in the lobbying, although Dr Han Seung Soo, the Trade Minister, stressed that he thought the decision not to list South decision not to list South Korea was taken mainly on

economic grounds.

Teams of officials and politicians pointed out that US demands to open agricultural markets were particularly sen-sitive because of poverty in the farm sector. A violent demonstration earlier this year by farmers provoked a political crisis in Seoul, threatening progress towards democracy, introduced only 18 months ago. The government has hastened for restructuring of the farm sector, and the lobbying

HIGHLY professional teams appeared to have con-campaign aimed at US vinced Americans that a sharp shock such as a Super 301 listing could halt both political progress and trade liberalisation efforts already

underway. Demonstrations, especially over past US demands to open markets for beef and cigarettes have heightened anti-Americanism in a country where the US has a strong security interest, the South Koreans also pointed out.

Officials appear to have been able to stick to their position that an agricultural market package unveiled in April could be subject to only minor concessions and Dr Han said that the US had accepted the proposal only at the eleventh

The South Koreans also agreed to lift restrictions on foreign investment in line with measures already announced to open the stock market in

The officials showed US negotiators apparently convincing evidence that the counvincing evidence that the country was diversifying its trade pattern. The US trade deficit with South Korea fell from \$9.8bn in 1987 to \$8.5bn last year with a target of \$6.5bn this year.

In the first quarter of this year the deficit fell to \$1.2bn from \$1.8bn last year and imports from the US are up by 25 per cent.



Roh Tae Woo: gratified at

India 'will not bow to US' over investment

By William Dulforce in Geneva

INDIA WILL continue to liberalise its investment policies in accordance with its national interest but will not negotiate changes under threats from the US. Mr Shankarrao Chavan, Finance Minister, said in Geneva yesterday. India's foreign investment

regime and its closed insurance market were among six "unfair trade practices" listed as priority targets by Mrs Carla Hills, the US Trade Representative, last month, when she took the first step in apply-ing the controversial new US

Trade Act.
Washington has called for bilateral talks with India Japan and Brazil on these prac tices over the next 12 to 18 months under threat of retalia-tory trade action.

Mr Chavan said there was no question of India's nationalised insurance business being opened to foreign companies or privatised.

The government had started to liberalise foreign investment three years ago but no outside power could dictate the degree or pace of change. However, the minister, who

was in Geneva for a seminar with European businessmen organised by the World Eco-nomic Forum, said India was aiming for a substantial increase in foreign equity investment and was applying greater flexibility to applications. Preferred sectors were petrochemicals, engineering, electronics and computer soft-

New direct foreign investments approved had climbed from Rs1.1bn in 1987 to Rs2.4bn (£94m) last year. The level was still very low but the trend was in the right direction, Mr Chavan said. The foreign exchange situation was a factor in the government's atti-tude to foreign investment but it would not constrain profit

repatriation.
Exports had risen by 57 per cent in dollar terms over the past three years. A fixed export obligation was required only for a joint venture, in which the foreign partner wanted to exceed the 40 per cent equity

Sales deal with Japan is world's largest, writes John Murray Brown

courtship, Indonesia and Japan are negotiating a new sales agreement for liquefied natural gas which is likely to set the pace for Far East gas trading well into the next century. At stake is the world's largest LNG trade - a \$3bn-a-year long-term contract under

shipments of around 16m tonnes to supply power utili-ties and household gas con-Also under negotiation is a multi-million dollar plant expansion which Indonesia is keen to see in place by the

which Japan takes annual

mid-1990s to take advantage of the projected growth in Japa-nese gas demand. Indonesia is already the Indonesia is already the world's leading gas exporter, controlling 40 per cent of global trade. The Japanese buyers – five power utilities, two city gas companies and the Nippon Steel Corporation – account for about 80 per cent of Indonesia's gas output. With Indonesia's gas output. With the extra capacity provided by three new trains (liquefaction plants) Indonesia's sales are set to increase by almost 30 per cent, making gas the country's largest foreign exchange

The broader question, as ever, concerns the timetable for developing the resources - whether to sell now in a depressed market or hold out for better prices.

The expansion plan requires agreement on new long-term contracts. It also entails con-siderable costs. The project would involve a \$750m con-struction contract for three

new LNG production trains, as well as substantial investment in field development, piping and exploration.

Both construction and interest costs are expected to be higher than on earlier projects. Financing will again be provided on non-recourse terms where the lenders receive no formal guarantees and are repaid out of project revenues. At today's prices a greater proportion of gas receipts will have to be assigned to debt ser-

vice, leaving less for the Gov-ernment and the foreign production sharing contractors

- Mobil, Total, Unocal and the

Indonesia currently enjoys more than 50 per cent of the Japanese market. There was visible relief when the Cana-dian Dome LNG project was scuppered. But officials are now more concerned at developments in Australia where the construction of five new LNG trains are under construction, with the majority of the gas destined for Japan.

Many argue Indonesia has little choice but to press on with the project. The budget is also under increased strain and relies more than ever on gas receipts to make up for the fall

in oil earnings.

The world energy picture of course has changed dramatic-

was signed in 1981. Just two months after the Arab oil embargo Japan was desperately looking to diversity its energy supplies. Indonesia's as yet undeveloped gas deposits offered secure supply at stable prices. Gas also represented a clean energy source - an important domestic consideration as Japan relocated its smokestack industries over-

Some oil analysts contend that Indonesia is still in a seller's market. With crude oil in the \$14-\$18 a barrel range

At today's prices a greater proportion of gas receipts will have to be assigned to debt service, leaving less for government and the foreign production sharing contractors

Indonesia all fired up for gas pact

sell to Japan.

Indonesia and Malaysia are the only countries in a position to

Japan's recent flirtation with alternative suppliers such as Abu Dhabi and Algeria, is dismissed as an idle threat. "It just makes no sense for Japan to buy more gas from the Middle East to replace Middle East oil." said one US oil executive. Indonesia has ample reserves. According to the Oil and Gas Journal, Indonesia's

proven reserves are estimated at 73trillion (million million) standard cubic feet. Its deliv-ery record is exemplary. In more than 2,000 cargoes its two facilities – at Bontang in East Kalimantan and Arun in North

Sumatra - have never missed

ally since Indonesia's first LNG sales contract in 1973 - a sec-In April Indonesia introond generation of contracts duced a new method for calculating crude prices - which in effect will bring gas more in line with the spot oil market. At times under the old formula the difference amounted to as much as \$3 a barrel - a situation which eventually forced Indonesia to make substantial rebates to its Japanese buyers in both 1986 and 1988.

In the current talks the Japanese are looking for flexibility in two key areas – pricing and the so-called Take-or-Pay terms which oblige the buyer to pay for the gas whether or not he takes delivery. The buyers want a new LNG pricing for-mula which would bring 1973 and 1981 contract prices in line - which would represent lost revenues of about \$50m

Under present Take-or-Pay terms the buyers are allowed a 3 per cent cargo swing either side of the contract amount in any 12-month period which must be made up in future years. The buyers are now calling for 10 per cent. Although talks are still at an early stage any new deal with the Japa-nese will be closely watched by Indonesia's other LNG custom-

South Korea's Gas Corporation KGC currently takes 2m tonnes under a similar long-term contract signed in 1983. Shipments start next year to Taiwan's China Petroleum Corporation for 1.5m tonnes. Pertamina, the state off com-pany, is also looking at possi-ble sales to Singapore, the Phi-lippines and India.

European countries of other sub-participants in the scheme, together with a sub-stantial amount of offset der of the financing package.

The \$30m has been preplaced by the venture's financial adviser, Chase Manhattan
Investment Bank, but will probably be sold down thereaf-

reached recently with the UK's Marconi Communications Systems for a project to manufacture battlefield wireless systems which could be worth up to \$200m with follow-on

The next agreement likely to be reached soon will be for mobile radar systems together with their control centres, valued at \$300m-\$400m. The bidders for this contract

are Aydin Corporation, General Electric Company, Westinghouse Electric, all of the US; Marconi and Plessey (both UK), Selenia (Italy), and Thom-

Sony workstation plan

SONY of Japan announced plans yesterday to form a Mil-an-based subsidiary that will sell 32-bit workstations to the Italian market, Alan Friedman reports from Milan. The move follows Sony's

announcement in March of plans to open its first manufacturing plant in italy, to produce up to 48m cassette tapes a

Sony said it would seek to build up an Italian market presence for its Sony News brand of UNIX-based workstat-The workstations, which make use of the Motorola 68000

series of powerful microprocessors, have applications in office automation systems, image processing, design and soft ware engineering. Among the companies already competing in this niche of the computer market are Hewlett-Packard, Digital Equipment and Sun

Sony said it could not disclose its sales targets for Italy. Mr Emilio Baruffi, chairman of Sony Italia, limited himself to saying that the new workstation importing company was part of Sony's strategy of expanding its overall preson the Italian market.

Chemicals dumping probe THREE leading US chemicals industries federation which

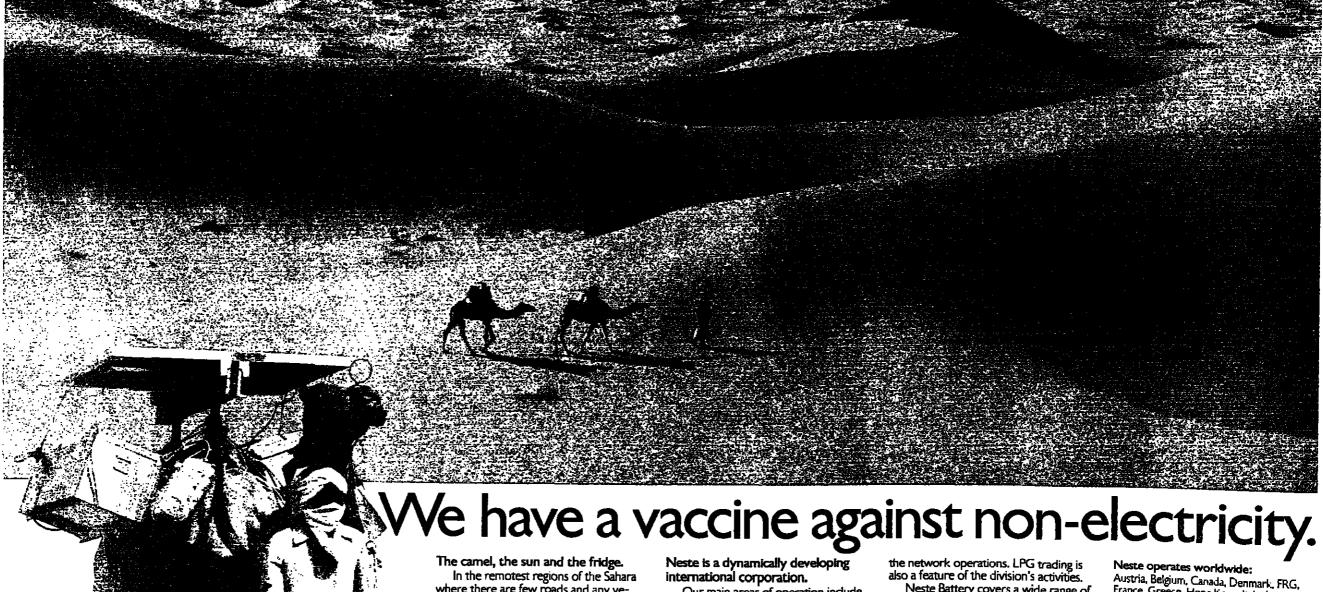
companies face possible anti-dumping duties on their EC exports as the result of a European Commission inquiry launched yesterday, William Dawkins reports from

Brussels is to examine allegations that they are unfairly underpricing their European sales of N propyl alcohol, a solvent used in printing ink, paint, cosmetics, pesticides and insecticides. The EC uses roughly 100,000 tonnes of the solvent annually, worth \$90m, according to estimates by Cefic, the European chemical

lodged the complaint.
The US companies involved, Union Carbide, Eastman Chemical International and Hoechst Celanese, sold 7,381m tonnes of

the solvent to the EC in the first half of last year. They were investigated for alleged dumping in the early 1980s, but gave the Commission a price undertaking in 1984 instead of paying duties. This undertak-ing expired last October.

The Commission is reopen-ing the inquiry, following Cefic's claims that US producers' European prices are 10 per cent below domestic charges.



where there are few roads and any vehicle is no longer roadworthy within a year, the camel is the only practical means of transportation. However, using camels to transport vital vaccines, which tend to spoil in the heat, is difficult.

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US expected to sell F-16 fighters to Pakistan

By Peter Riddell, US Editor in Washington THE US is set to announce the tan at a cost of \$1.4bn (£930m) in a signal of support for Ms Benazir Bhutto, the Prime Minister, during her visit to Wash-

ington.
The Bush administration is giving Ms Bhutto a ceremonial welcome to show US support for her position following her election last November. She held talks yesterday with both President George Bush and Mr James Baker, the Secretary of

During an effusive exchange of compliments at the White House, Mr Bush yesterday highlighted the return to democracy in Pakistan which, he said, had "strengthened America's already firm resolve to work closely with Pakistan". Pakistan absedy has 40 E.18s.

Pakistan already has 40 F-16s and wants an additional 60 to replace its ageing F-6 Chinese aircraft. Administration offi-cials have already been con-sulting with members of Con-gress, which has to approve

any deal.
Pakistan is now the third largest recipient of US bilateral aid and for the 1990 fiscal year starting this September the Administration has requested approval from Congress for \$380m in economic assistance and about \$340m in military

Apart from bilateral relations, the topics discussed included Aighanistan, weapons proliferation, and drugs production and trafficking.

The US is taking a low-key approach on the nuclear issue,

not wanting to weaken Ms Bhutto's political position but wishing to restate the US's strong opposition to the devel-opment by Pakistan of its own nuclear weapons. Under the so-called Pressler amendment, US law requires annual certifi-cation by the President that Pakistan does not have a

nuclear weapon as a condition for continued US military and economic assistance. This was last certified in November Mr William Webster, Direc-tor of the Central Intelligence Agency, recently warned about an arms race on the subcontinent between Pakistan and India, which recently tested a medium-range ballistic missile capable of carrying nuclear

After their talks both leaders stressed the importance of nuclear non-proliferation. Mr Bush expressed strong US sup-port for "Pakistan's efforts, and India's as well, to improve

Mr Bush stressed the critical importance of avoiding a regional nuclear arms race in the subcontinent. He said: "She [Ms Bhutto] assured me that Pakistan's nuclear programme is committed to peaceful purposes."

In reply Ms Bhutto stressed Pakistan's determination "to strengthen the process of nuclear non-proliferation by seeking accords, both bilateral and international, within the regional context".

Towers of wood and water in eyries of Manhattan

Janet Bush on the rival families who bring an element of craftsmanship to New York's city skyline

are the stuff of modern architecture and there is plenty of it on display in the speciacular monuments to eco-nomic expansion built on Man-

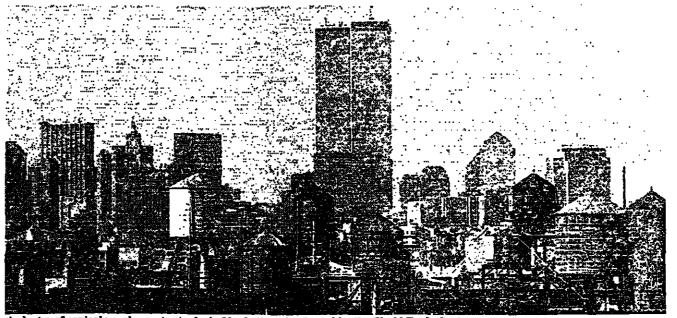
hattan this century.

But between the sheer lines of the most famous skyline in the world pretrude clusters of dirty, squat wooden towers topped with conical roofs, an anachronistic reminder of a more utilitarian stage in the city's history. New York's wooden water

tanks are as much a feature of the cityscape as the Empire State or the Chrysler building, and they pre-date these architectural triumphs by decades. The shimmering towers of the new World Financial Centre at the southernmost tip of Manhattan conceal their wooden tanks under brassy domes and there are eight hidden under the Chippendale broken pediment of the awardwinning skyscraper which is the headquarters of American

Telephone & Telegraph. While wooden tanks have gradually been replaced by steel ones in other cities, they have remained an integral part of New York. Despite the march of technology, more than 95 per cent of buildings above six storeys, which need tanks on their roofs to achieve adequate water pressure, still have them.

The art died elsewhere but New York still boasts two thriving family businesses which continue to build and repair wooden tanks. Isseks Brothers and Rosenwach Tank Co have been supplying New York's wooden tanks since the 1890s. Both families emigrated from Eastern Europe, bringing the art of making wooden wine barrels and bath tubs.



A cluster of conical wooden water tanks in Manhattan, dominated by the World Trade Centre

Abraham Isseks brought his family from Russia and founded the business on the Lower East Side in 1890. After he died in a machine shop accident, his widow Dora took over, even though she could neither read nor write and hardly spoke English.

Mr Scott Hockhhauser is one

of Dora's two great-grandsons who now run the company from offices just a few blocks north of the original workshop on Pike Slip near the Manhat-tan Bridge. Recently, he says, he ran into an elderly Irish plumber who recalled how con-struction workers used to say: "Take care of the Widow

The origins of the Rosenwach Tank Company, whose offices are in Long Island City and whose workshop is in the Italian section of Brooklyn called Canarsie, are a matter of some contention. Mr Wallace Rosenwach, cur-

rent chairman, maintains that his grandfather, an immigrant near Warsaw, bought out another tank manufacturer called Dalton in 1894 for \$55.

This is not the story, according to the Isseks. They claim that Wally's grandfather was a foreman at Isseks during the Widow's day, but that he fell out with her and set we had out with her and set up on his

This draws a sharp retort from the other side: "My grandfather never worked for "The thought of him working for anyone else!"

Whatever has been distorted or lost in the history of the two there is razor-sharp competition between them and both try to outdo each other's claim to be the premier tank company in the city.

While the Isseks proudly call themselves the oldest tank manufacturer in New York, Mr Rosenwach trumpets the fact that his company is the only one that actually makes its tanks in the city - Isseks tanks are made in a workshop in

The fact that there are only two companies - no other has ever broken their stranglehold on the business - has encour-aged talk among New Yorkers of a feud to rival the hillbilly squabbles of the Hatfields and

McCoys.

Each family laughs off the idea but concede that the competition is intense. "You get two guys selling pretzels across the street from each other and they keep cutting and cutting prices and soon both of you are out of work.' says Mr Hockhhauser.

Wooden tanks are used for domestic water supply as well as reservoirs which comply with New York's stringent fire regulations. Because they last as long as 40 years, much of the day-to-day business nowadays involves repairs and cleaning but they are not dying

Both manufacturers list some formidable advantages for wood over steel which it is

cases. Wood is an extremely good and cheap insulator suited to New York's cold winters and sweltering summers. And wooden tanks, made up of together with iron hoops, are

easier to erect and keep clean. A team of men from either company guarantees to dismantle an old tank and put up a new one within a day. "We had better do it in a day, what with these prima donna New Yorkers and their obsession with showers," said Mr Hockh

hauser.

The wood strips can more easily be hauled up onto a roof than sheet steel and a wooden tank can be assembled with only six inches to work with around the tank. Wooden tanks cost a lot less to clean than steel because there is no rust and no need for expensive

It takes a particular form of lunacy to spend one's life working hundreds of feet above pavement level. Mr William Capp, foreman at Isseks, has been doing it for 26 years ever since he left the US army. In 1975, he was working in the bosun's chair, a seat strapped around the conical roof of the tank, when he plunged to the roof below and was laid up in hospital for 13 months.

It is very, very dangerous, I enjoyed jumping out of planes better when I was in the ser-

But there are compensations. Life on New York's roofs can be as lively as on the streets below. "You get a lovely view up there and there is always something going on.

Barbecues, parties, a few Venetian blinds left open -draw your own conclusions,"

Foley vows to heal splits in House

By Peter Riddell

of the House of Representa-tives, the second in line to the presidency, and promised to end recent bitter divisions. Mr Foley, 60, from Washing-ton State, has been House Majority leader and was the only Democratic nominee to succeed Mr Jim Wright, who resigned last week after an investigation by the House Ethics committee into his

financial dealings.

According to tradition, the Republicans nominated Mr Bob Michel, their Minority leader, and the vote for the Speakership was on partisan lines, with Mr Foley winning by 251

Mr Foley said he honed quickly to "restore a mood of conciliation, reconciliation and co-operation between the two parties. I hope this can be the beginning of the movement of the House back to the business for which the public elected us

MR TOM FOLEY was to serve." yesterday duly elected Speaker There is, however, still considerable anger about the spate of accusations which has led to the resignations of Mr Wright and Mr Tony Coelho, the Dem-ocratic Majority Whip. Some Democrats have vowed

to get revenge on Mr Newf Gingrich, the Republican Minority Whip and Mr Wright's main accuser, while the Republican National Com-mittee has undermined any mood of reconciliation by cir-culating a document attacking Mr Foley as a political enemy more liberal than his reputa-tion indicates.

The vacant positions of House Majority leader and Whip will be filled in elections by the Democratic caucus next week. At present, Representa-tive Richard Gephardt, a defeated candidate for the Democratic presidential nomination last year, is favoured over Representative Ed Jenkins to succeed Mr Foley

Guyana says it has agreed on debt relief

GUYANA has said the Paris Club agreed to relieve its debt at talks to reschedule \$150m that the country owes the group. Reuter reports from Georgetown.

Paris Club countries agreed

Paris Club countries agreed on Sunday to recommend that repayment of principal and interest on official mediumand long-term debt in arrears at the end of last year would be made over 20 years including 10 years' grace. The official Guyana Public Communications Agency (GPCA) confirmed this to the Caribbean News Agency (CANA), Reuter reported.

reported.

The GPCA was quoted as saying repayment of principal and interest on official short-term debt would be made over 10 years including five years' grace. No interest rates were given and no comparison was available to show repayment conditions before Guyana received the debt relief. There was no provision for debt cancellation or interest rate reduction after the talks.

Bankers fear delay on Brazil payments

By John Barham in Sao Paulo

BANKERS fear that Brazil may suspend further payments on its \$112.3bn foreign debt by September, unless the International Monetary Fund concedes its policy waivers and resumes

lending.
Brazil has failed to keep IMF targets on inflation and government spending. An IMF team arrived in Brasilia on Monday to review policy far-

Commercial banks as well as the IMF and World Bank have ment of \$2.4bn in fresh loans they had promised Brazil under the last debt renegotia-However, Brazil must transfer a forecast \$10.5bn in debt service payments this year as

well as honouring a rising tide of capital outflows by multina-tional companies. Brazil's cur-rency reserves in February stood at \$6.3bn and the trade surplus is forecast at \$16bn for Brazil suspended interest

payments to commercial banks for almost a year in 1007 almost a year in 1987. A British banker commented that "it has long been my view that there will be a moratorium, but it is hard to say if it would be declared as a negotia-ting ploy or for political rea-sons". The threat of morato-rium could be used to strengthen Brazil's hand in the critical negotiations with the IMF team. A declaration of

moratorium could influence the November presidential However, Mr Jacques Kemp of the Dutch NMB Bank cau-tioned that "the possibility of moratorium exists, but all the factors could change". He doubted that Brazil would risk would choose instead to delay surplus payments if its foreign reserves came under

He said that if the IMF team gave a positive report the Fund's blocked loans would come through.

Inflation rate quickens in Chile

By Barbara Durr in Santiago

CHILE'S inflation rate in May rose to 2 per cent, exceeding estimates and confirming the need to slow down the economy. The selected index of the

Santiago stock market conse-quently fell 4.48 per cent. The Chilean National Insti-tute of Statistics used a new, larger basket of goods to me sure consumer prices last month. The new basket was devised in part because of crit-icism that the old one was not accurately reflecting inflation.
Bread and transportation,
the two items that most affect
Santiago's working population, rose 3 per cent and 6.1
per cent respectively.
Inflation during the first
five weaths of the weather than the

five months of this year ran at 6.3 per cent and during the last 12 months at 14.8 per cent. Its quickening pace fol-lows efforts to cool the overheating economy with higher interest rates. The first quarter's economic growth reached

Argentina to pay benefits to jobless

By Gary Mead in Buenos Aires

ARGENTINA'S government today introduces a national unemployment benefit scheme, in the context of the country's worst post-war recession and hyper-inflation.

The scheme will cover more than 640,000 people, the latest available official figure for

national unemployment, representing fractionally more than per cent of the workforce.

Each registered unemployed

person will be entitled to receive the nationally-fixed monthly minimum wage of 8.700 australs (or \$50 at current official exchange rates) for six

The monthly bill for the scheme is estimated at 1.9bn australs (or almost \$11m) per month, to be funded by the already hard-pressed Treasury. A further one-and-a-quarter million people are now esti-mated to be working reduced hours or are temporarily suspended due to the recession which is particularly affecting the construction and car-manu-

facturing industries. Last week thousands of peo-ple from slum districts of Buenos Aires and the northern city of Rosario looted supermarkets, many protesting that they had neither work nor food for their families.

The Government's introduc-

unemployment scheme (the first was implemented in 1985 and lasted one year) will allevi-ate some of the immediate problems at the cost of squeezing depleted state revenues.

Among trade union leaders

tion of this second emergency

there are growing signs of a battle for leadership and control of the General Confedera-tion of Labour (CGT), Argen-tina's centralised trade union organisation. President-elect Mr Carlos Menem, of the Peronist party, has yet to nomi-nate his future Labour Minister although he has promised the post will go to a trade union representative.

One of his closest recent advisers, Mr Luis Barrionuevo

(head of the Gastronomic Workers' Union), has suggested that Mr Saul Ubaldini, secretary general of the CGT, should make room for someone else at the CGT's helm. Mr Ubaldini did not favour Mr Menem's candidad for the Peronist presidential

nomination last year.

"Like footballers, boxers, and artists, trade union leaders have to know when to retire, in order to go with all honours and applause," said Mr Barrionuevo, who described Mr Ubaldini as having carried out a "titanic task".

Bankers face down Brady plan in Mexico debt talks

HE campaign against US proposals to reduce the debt and debt service burdens of Third World countries is now being acted out in negotiations between Mexico and its creditor banks. Understanding why the banks are digging their heels in so deeply is explained simply in the words of one North American bank chairman, "Forget the principles, it's down to money". While obviously it is in banks' interests to extract the greatest concessions from all parties, there are broader issues. They are negotiating in a rearguard action with an eye on the precedents that are being set and on the implications, which still could be profound, on their balance

They also see some potential developments reducing their leverage over the debt issue, pushing more power into the hands of the International Monetary Fund, and by impli-

cation, the debtors.
Underlying this is a genuine concern that the proposals — launched on March 10 by the US Treasury Secretary Mr Nicholas Brady – could unwit-tingly bring about a collapse in cooperative debtor-creditor relations.

Uncovering what's at stake in Mexico's talks with its banks is not easy. The Mexican finance minister Mr Pedro Aspe is said to have threatened to demote any official leaking details of the talks to the level of clerk.

But despite the initial positions, which were unusually far apart, there appears some modest coming together. Mr John Reed, chairman of Citicorp, which heads the 16-bank advisory group, has said he believes agreement could be arrived at within a couple of

Understanding the issues is like peeling an onion; once one point is clarified another seems to emerge. Nevertheless, what follows is a guide to the some

of those issues.

The Brady initiative
Since its launch, the Brady
proposals have gained the support – in some cases grudging – of the main industrialised countries which finance the IMF and World Bank.

Stephen Fidler analyses the obstacles to agreement over re-financing

The plan would, for the first time, empower the two institutions to deploy resources to encourage the reduction of debt burdens and the lowering of interest payments by debtor countries agreeing to strong economic reform packages. The emphasis of the strategy had hitherto been on the the provision of new loans for

Since 1984, debtors have become keen to "capture" for themselves some of the discount to face value at which their loans were being traded among the banks. Brady's ideas were meant to encourage the voluntary debt reduction process, although new loans from banks would still be

required.
The flesh on the bones of the vague Brady ideas was to emerge through negotiations between debtors and creditor banks. As expected, Mexico has become the test case.

There was cynicism that the US proposals were mainly simed to help out Mexico, a prime foreign policy consideration for a Texas-dominated

The idea was essentially to direct resources to provide pools of funds to enhance the creditworthiness of securities to be exchanged for banks' old loans, or funds which can be used to buy back old loans at a How much and how

Bankers have complained that the resources likely to be provided will not be important enough to secure significant debt or debt service reduction. But they also say the proposals will make banks even more unwilling to provide new loans, which will still be neces-

sary. In Madrid today, the heads of the IMF and World Bank are expected formally to outline how much is on offer to sup-port debt and debt service reduction. However, many bankers have already done their own sums. From the IMF and World Bank, up to 25 per cent of extended credits or adjustment loans can be set aside for debt reduction operations, either through buybacks or collateralising principal. Up to 40 per cent of a debtor country's IMF quota and the equivalent amount from the World Bank can additionally be provided as interest support for debt reduction or

service reduction operations. This means in the case of Mexico, perhaps \$1.2bn for interest support and nearly \$2bn of support for principal payments or debt buyback finance. A further amount, as yet unspecified, is likely to be available from Japan for debt reduction operations, and Mexico may be able to supplement it further using its own reserves. Bottom line: \$3bn to \$5bn of support, of which most

would have to support principal reduction techniques. Banks want to know how flexible the IMF and World Bank intend to be with these pools, and they are getting mixed signals. Staff at the two institutions would like maximum flexibility in co-mingling the support pools – so that interest and principal support could be provided for the same bonds. However, the chairman of the IMF's interim committee, the Dutch finance minister Onno Ruding, is among those

who don't like interest support, which he sees as implying a public bail-out of the banks,

and want a rigid definition.

Many banks, particularly from the US, would like to see an emphasis on low-interest bonds, because it would mean they might not have to write down their loan principal. However, US legislators and others want to see write-downs

THE drive to conclude a refinancing package for Mexico will resume in Madrid today at a multilateral meet-ing between bankers, Mexican officials, the IMF and the World Bank, David Lascelles reports.

The meeting was arranged to enable Mr Michel Camdessus, the managing director of the IMF, and Mr Barber Conable, the president of the World Bank, to brief bankers on the resources available from offi-

But it will be attended by

from banks to emphasise that there is no bank bail-out.

What Mexico wants

Mexico's initial request was for an alleviation of its annual outflows of an annual \$4.5bn over six years, a request described by the US Treasury as excessive. It wanted banks either to provide new loans equivalent to 80 per cent of interest payments, capitalisation of 80 per cent of interest, a reduction in debt principal to 45 per cent on \$30bn of loans and the conversion of \$10bn of loans into the same amount of 4 per cent bonds. It has since adjusted this position, indicating it would accept a 50 per

cent reduction of debt princi-The banks' reply The banks have responded with detailed proposals but over three years. Banks have offered \$1bn in debt service

alleviation in a proposal which

may subsequently have been

One option would exchange existing debt, discounted by 22 per cent (compared with the originally offered 15 per cent), for bonds with an interest rate at 1% percentage points over money market rates. Another calls for the issue of bonds offered at face value at an interest rate of 8 per cent for five years, while a further pos-

Mr Angel Gurria, Mexico's chief debt negotiator, and Mr Pedro Aspe, the Finance Minister. The presence in Madrid of the chairmen of most of Mexico's large creditor banks, on the occasion of the annual International Monetary Conference, has also increased its importance and created a strong air of expectation.
It was not clear last night

whether the bank chairmen would attend today's meeting, or the executives who normally sit on the advisory com-

sibility offers both principal

and interest reduction. Bonds would mature in 30 years and will be fully collateralised with

zero-coupon US Treasury bonds or guarantees from There are important differences over whether a big debt to equity swap programme should be part of the package.

Why so far apart?

Both sides say their claim for how much relief Mexico needs is backed up by their own economists. Indeed, part of the difference arises out of assumptions about the oil price, with banks believing Mexico's \$12 a barrel assumption is too low. However, the big discrepancy is likely to be on their capital account assumptions. Mexico's reserves dropped by \$6bn last year, the equivalent of its earnings from oil exports. This is, say the banks, being encouraged by an overvalued exchange rate, which is also turning Mexico's trade into deficit. Mexico says a firm exchange rate is neces-sary to combat inflation, but the banks by implication want to see a bigger devaluation to make exports competitive and encourage a reflow of capital Deadlines

There are a number of poten tial deadlines, the first of which falls on June 20, when Mexico is due to make a big interest payment of more than \$1bn to banks. With reserves down to an estimated \$4bn in April bankers are worried that the payment may not be made. Progress is also needed ahead of the roll-off of the pact between the government and trades unions in Mexico. A success for the debt strategy by the July 14 summit would also be seen by some governments as highly desirable.

The sting in the tail Bankers are very worried by the powers given to the IMF under new guidelines. The Fund may now disburse funds (as it has in the case of Mexico) to countries before a bank package has been put together.
For the first time, it may also
lend, if it ascertains that banks
are unreasonably blocking agreement with a debtor, when the country is in arrears to commercial banks. This gives the Fund the power to prevent banks vetoing financial packages with countries willing to undertake economic reform programmes, as they did for example in the case of Costa

This is a weapon that the Fund will want to use sparingly, since any release of money to a country in arrears will be seen as condoning these arrears. The Fund and Bank will enter the firing line of the commercial banks, who could retaliate by pulling short-term trade and interbank lines, with the potential that the whole debt issue could dissolve into





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In Brief

IRA bomb

hits £60m

development

An IRA van homb ripped through a partially built £50m shopping development in Bel-

fast yesterday causing serious

damage to shops and offices in the city centre. It was the third time in 14 months that terror-

ists had managed to plant a

bomb at the CastleCourt com-plex which is Ulster's biggest-ever retail development.

Belfast shipyard protest

Belfast

UK NEWS

Abbey National gets go-ahead for share plan

However Sir Campbell

By David Barchard and Clare Pearson

THE LAST obstacle to Abbey will have to be examined National Building Society's Adamson, chairman, said yes-terday that the number of stockmarket flotation was yesterday removed as the Building accounts likely to qualify for additional cash payouts would probably be very small and he did not expect that Abbey Societies Commission gave permission for the fleat, the first ever by a building society, to proceed.

However, Abbey National, a specialist institution in mortgage finance and deposits owned by the members, came in for some sharply worded criticism of the board's conduct during the run up to the

In addition the society was ordered to review arrange-ments for compensating chil-dren with accounts with the society for their loss of owner-

ship.

The commission says that
Abbey National gave its members "a biased view of conversion" which fell far short of what they could reasonably have expected. Parts of Abbey National's transfer statement to members are described as "facile", "over-sanguine", and failing to bring out key aspects

of the changes.
As a result of the commission's decision, about 250,000 accounts owned by children Sharp fall in number of new homes built

By Andrew Taylor, Construction Correspondent

THE NUMBER of new homes being built by housebuilders fell sharply in April according to figures published yesterday by the Environment Depart-

the outlook for house sales has

Builders started work on 16,400 houses and flats in April compared with 21,000 in the National would be obliged to pay out a large amount. He said that the society was "elated" that it was now finally corresponding month last year
- a fall of 28 per cent.
Stock market concern about able to complete the flotation, which he said had proved far more difficult to push through

been reflected by big falls recently in share prices. than originally anticipated. This weekend an intensive, Housebuilders since Easter have on average under-per-formed the FT-All share index £2m advertising campaign gets going, aimed at whipping up Abbey members' interest in by between 15 per cent to 20 per cent, according to the London stockbroking arm of Swiss Bank Corporation.

The average price of a applying for the extra shares to

applying for the extra shares to which, aside from the free shares, qualifying savers and borrowers are entitled.

The next key date in the countdown to July 12, when stock market dealings in the Abbey shares is set to start, is home in Britain would have fallen last month but for house price rises in Scotland and northern England, according to a survey published yesterday by Halifax, Britain's biggest next Thursday. This will mark the posting of the prospectus for the extra share issue. After that, applicants will have just 10 days to return their forms to the Abbey by post, or until June 28 if they are handing them in.

building society. It added that housebuilders in many parts of the country were holding down prices, in a bid to restrict falling house Jump in new car sales sets monthly record By Kevin Done, Motor Industry Correspondent NEW CAR sales in May new peak in 1989 despite an jumped by 7.46 per cent to 199,258, setting a record for the ond half of the year, according

month, according to figures released yesterday by the Society of Motor Manufacturers New car registrations in the

first five months of the year were 9.15 per cent higher than a year ago at 1,021,736, the first time that a million cars have been sold in the UK before

UK new car registrations have reached a record level for four successive years, and new car sales are likely to reach a

HYUNDAI, South Korea's largest vehicle maker, today launches the Sonata, its first

executive car, in Britain, but admitted last night that sales

predictions made earlier in the year would probably not be met, writes John Griffiths. Mr Mike Adams, managing director of Hyundai Car Dis-

director of Hyundai Car Dis-tributors (UK), the importer of Hyundai cars, said last night that UK new car sales to pri-vate, rather than company, buyers were now weakening substantially under the impact of high interest rates. As a result of the weakening, sales, targets, set when the

sales targets set when the Sonata had its world unveiling

at the UK motor show last year

to the society. While many retail sectors are reporting a slackening of activity "the car sector continues to out-perform all forecasts, seemingly unaffected by the Government's high interest rate policy," says the society in its monthly statistical review. UK new car sales totalled 2.216m last year and, according to the society, sales will exceed

2.4m this year if the present rate of growth continues. "Even if monthly sales remain flat from now until the

would not now be realised, said

Mr Adams. Hyundai Car Distributors

(UK), subsidiary of the Interna-tional Motors group which also imports Japanese Subaru and Isuzu vehicles to the UK, hopes to sell 1,500-2,000 of the

intended Ford Granada, Rover 800 and Vauxhall Carlton Chal-

nger in the remainder of this

This, said Mr Adams, should

This, said Mr Adams, should lift total Hyundai sales in the UK this year to about 13,000 units, compared with 11,365 last year. Last October, the British importer had forecast that Hyundai sales would total 12,500 in 1988, rising to 16,000 this year.

end of the year, 1989 will still be another record year."

The society says that it expected the big rise in interest rates, especially in mortgage rates, to have hit demand by now, but it suggests that the widespread availability of low interest finance as well as intense compatitive marketing intense competitive marketing campaigns by leading manufacturers have played a significant role in sustaining private car purchases.

Imports captured 55.77 per cent of the UK new car market in May compared with 55.12 per cent a year ago and

claimed 55.84 per cent in the

first five months compared with 54.64 per cent in the corresponding period of 1988.

The biggest gains last month were made by Vauxhall, the Were made by variants, risk UK subsidiary of General Motors of the US, which increased its share to 15.26 per cent from 12.23 per cent a year ago helped by a 34 per cent

ago neiged by 3 34 per cent jump in sales volume.

Big gains have also been made this year by Nissan, Peu-geot and the Volkswagen group which includes Audi and SEAT, while Rover, Fiat of Italy, and Volvo of Sweden have lost ground.

Hyundai executive launch Jaguar plans US discount

JAGUAR, the UK luxury car maker, plans to offer limited financial incentives to customers in the US in an effort to boost flagging sales in the US market, writes Kevin Done.

The move is an abrupt change of marketing strategy for Jaguar in the US, where it has previously resisted pressures to offer incentives despite similar moves by most of its leading competitors

despite similar moves by most of its leading competitors including Mercedes-Benz and BMW of West Germany.

The US market accounts for more than 40 per cent of Jaguar sales, but in the first five months of this year sales dropped by 6.5 per cent to 7,477 following declines in both 1988

Jaguar's big European rivals in the world luxury car market have also been struggling to halt falling sales in the US. Mercedes-Benz, in particular, suffered an 18.9 per cent fall in US sales in the first five

Jaguar tried to avoid finanrigidar tried to avoid finan-cial incentives and discounts in the US by switching sales to other markets. But the com-pany forecast a 10 per cent increase in US sales this year and decided to offer financial incentives to clear 1989 stock and prepare for the launch of its 1990 model year programme in the autumn.

Around 1,000 workers at Har-land & Wolff, the Belfast shipbuilder, staged a one-day walk-

out in protest against proposals for new working con-ditions as part of the manage-ment-employee buyout of the

Belfast-Dublin rail link Plans for a new high-speed rail link between Belfast and Dublin by 1994 were disclosed yes-terday. Northern Ireland Railways have formally adopted a £50m investment programme to be jointly implemented by NIR and Irish Rail.

TV channel restricted

The Government's planned new national TV channel. Channel 5, may only be able to reach around 50 per cent of the population, due to economic constraints, according to the chairman of the Independent Broadcasting Authority.

£250m 'squandered'

Merseyside Development Cor-poration, in north-west England, has squandered the prospect of more than 1,000 jobs and at least £250m of private sector investment and should be wound up, according to former board member and monetarist economist Professor Patrick Minford.

Passengers died 'in vain' The 35 killed in the Clapham rail disaster, south of London, "suffered in vain", the crash inquiry heard on its 57th and final day and counsel for the bereaved and injured said the crash was "wholly unnecessary and wholly avoidable."

Euro-centre chosen

Exeter Enterprises, the con-sultancy arm of the University the site of the first European Information Centre for the far south-west of England.

Student plan rejected Government plans to expand dents through a sweeping reform of higher education finance are likely to fail, uni-

Rush for FM franchise No less than 32 groups have submitted formal applications for the new London FM franchise, the largest number ever to seek a commercial radio



Scottish accountants reject merger plan By James Buxton THE PLAN to create a single Institute of Chartered Accountants of Great Britain was rejected yesterday by members of the Institute of Chartered Accountants of Scotland The result marks the demise of the first attempt in 20 years to harmonise the British accounting profession. It represents an acute embarrass-

ment for the profession's leaders, who had responded to promptings from the Government when proposing the cre-ation of the new body.

ation of the new body.

Mr Jock Worsley, president of the Institute of Chartered Accountants in England and Wales (ICAEW), the other institute involved in the merger plan, said: "This does no good for the credibility of the credibility of the profession generally. I think the Scottish profession will live to regret the way members of the institute voted against the proposal today."
Members of the Scottish

the Institute of Chartered Accountants of England and Accountants of England and Wales by about 55 to 45 per cent, with 4,025 members voting against and 3,275 member in favour. A two-thirds major ity had been required for the rger to be approve

During a year of often bitter and emotional argument, lead-ers of the Scottish institute claimed that the merger was necessary because of legislation requiring accountancy firms to be regulated by one of

the two institutes.

Many firms straddle the
English-Scottish divide; thus,
an English-based company which operates in Scotland would be regulated by England's institute. The Scottish institute feared that without merger it would gradually lose members and prestige.

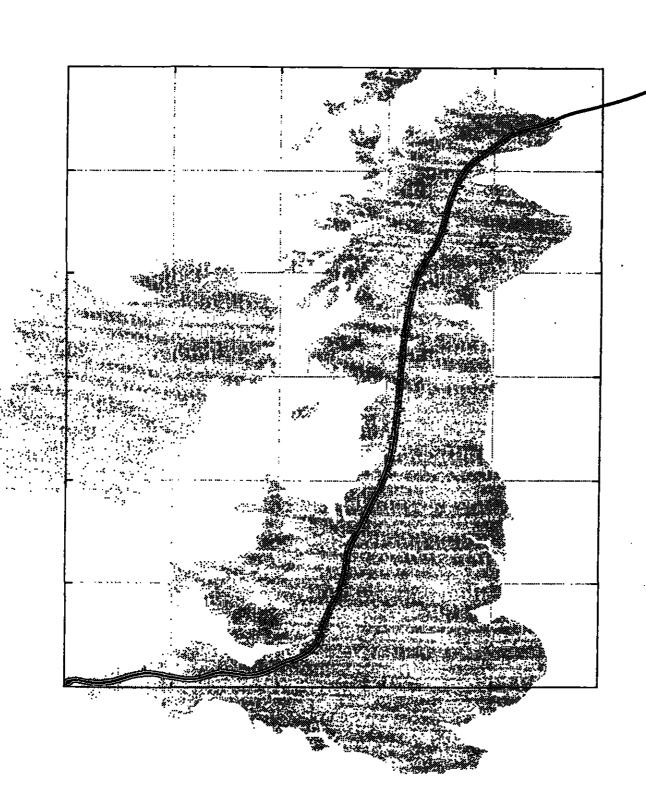
Opponents contended, how-ever, that merger was unnec-essary and would erode the distinctiveness of the Scottish accountancy profession. Questions of regulation could be solved by closer co-operation between bodies north and south of the border, they said.

versity vice-chancellors said

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UK NEWS

Traffic side-steps ports as fears of dock strike grow

By Our Industrial Staff

CONTAINER traffic at some of Britain's leading ports has dropped to a trickle this week as companies have acted to sidestep the threatened dock

Measures to divert cargoes from ports operating under the dock labour scheme, which the Government wants to abolish, have already had a devastating ect on three of the country's highest-volume container ports, Southampton, Tilbury and Liverpool.

Shipments at the 40 ports in the dock labour scheme could be halted by strike action next week following court hearings taking place this week. Sub-stantial volumes of imports and exports have been diverted to Continental destinations as well as to British ports outside

Movement through Liverpool has dropped by 80 per cent, and Tilbury said yesterday it was was suffering from "substantial traffic losses." At Southampton, Mr Geoffrey Bayley, managing director of the Container Port, said: "We've got absolutely nothing in today. The only movement I can see are the seaguils perch-

ing on the cranes."
While many companies, confident that they can cope, have made no special preparations,

In London's Court of Appeal the Lord Justices announced their intention to give judg-ment today on the port employers' appeal against a High Court todge's refusal to grant an injunction stopping the national docks strike. The judgment may determine whether Britain will become embroiled in a national docks strike within the next few

others are adopting a variety of methods to circumvent a stop-

page.
Some cargoes are being diverted to Rotterdam and other Continental ports, broken up and shipped to non-scheme ports in the UK. A number of companies have been paying premiums to shi-powners to speed the move-ment of their cargoes through scheme ports before the threat-ened strike starts.

Keith Brown Shipping, a Cardiff shipbroker, says com-panies might pay between 5 and 10 per cent more to have their cargoes shifted now rather than wait for transport dates for which they had already been scheduled.

Felixtowe, a non-scheme port, with the leading position in Britain in container traffic, said it was experiencing some increase in volume.

Importers in several industries have built up stocks over the last few weeks to prepare for the possible shutdown in he scheme ports. Industry officials say Britain

now has a stock of five months in basis commodities such as edible oils, rice bran, soya meal, bone meal and various kinds of grain.

Mr George Alcock, chairman of both Merseyside Chamber of Commerce and the Grosvenor Grain and Feed Group, said yesterday: "People have been making contingency plans for a long time. There has been a lot of diversion of cargoes. A threat of strike is worse than a strike sometimes for the amount of switching of cargo

The construction industry, one of the biggest importers in Britain, with a trade deficit of \$2.5bn last year, has built up substantial stocks in several

Stacks of soft wood are estimated to be standing at about three months by the Timber Trade Federation. Hardwoods stocks are estimated about five

Lords drop two Lonrho charges

By Richard Donkin

LONRHO, the international conglomerate headed by Mr Tiny Rowland, won a further victory yesterday in its defence against accusations that it has en guilty of contempt of the

House of Lords.

After a submission by Lonrho, a reconstituted comm of law lords dropped two of three contempt charges against Lonrho and the Lonrho-owned Observer newspaper relating to the publication of a special edition by the Observer.

edition contained extracts from a leaked copy of the report by government inspectors into the 1985 take-over of House of Fraser by the Al Fayed brothers.

Al Fayed brothers.

The new three-man panel which replaces the original committee of five Law Lords who initiated the proceedings decided it would focus only on the question of whether the publication of the Observer special issue constituted contempt. Lord Bridge and the tempt. Lord Bridge said the reasons would be given later.
The dropped charges covered

the mailing of the edition to four of the five original Law Lords who were due to hear Lonrho's final attempt to force Lord Young, the Trade and Industry Secretary, to publish the report without further

Japanese launch battle for Britain

LOCK UP your children, throw away the television set and prepare for the arrival of the latest cult game.

Just when you thought it was safe to go back into the living room, Nintendo video game from Japan via, inevitably, the US - is set to hit our TV screens. Serif Cowells, the UK group best known as Europe's manufacturer and distributor of the cult boardgame, Trivial Pursuit, has just won European distribution rights

The cult status of TP, as Serif calls the general knowledge game, is on the wane in Europe. Although last year's sales of Nintendo, hopes Serif, will provide the USM-quoted group with a replacement source of revenue. But as a sociable, even

3.2m units were the best since its European launch in 1985, it is becoming an "evergreen" – an old favourite to be brought out by the family at Christmas.

educational, dinner party game – which Trivial Pursuit succeeded in becoming - Nintendo may leave a little to be

Modelled on arcade video games, it is based on a control console, and a selection of game cartridges, mainly confrontations between the player and the computer graphics, be they boxers – in Mike Tyson's Punch-Out!! – or gunfighters, complete with full colour and sound. Predictably the fictably, the game - aimed at seven to 14-year-olds - has found its biggest mar-

ket among boys. Serif accompanied yesterday's statement with some bone-chilling facts from the US. Nintendo has already gained about 70 per cent of the total electronic es market, one in five US homes now has the system, and 35m control consoles and 70m game cartridges have been sold in the last three years worldwide.

Getting in on the cult will cost European parents more than their US and Jap-

anese counterparts. Nintendo has actually been on sale in the UK since 1987 - principally through Dixons and Boots: the standard control box, which plugs into any television screen, costs £99, including one game, and the more popular de luxe model comes at £149, with two games.

Serif, which persuaded Europeans bored with the original Trivial Pursuit to buy new editions at £25 each, hopes parents will part with £20 or £30 a time to add new games to the system and keep their offspring quiet.

The company quotes Helen Moody, a Celifornian mother: "It's got to the point where the kids won't come to play at your house unless you have Nintendo."
One good reason for not buying the game, some would say...

Mixed welcome for EC reprieve on lorries

THE DECISION on Monday by the European Community transport council to keep 40transport council to keep 40-tonne lorries off British roads until 1999 received a mixed reception yesterday from industry and environmental-ists, writes Andrew Taylor.

Previously, the Commission had proposed to allow heavier lorries into Britain from 1997 and some companies were dis-appointed at the two-year delay. Environmentalists were dismayed that heavier lorries had been allowed at all.

Mr Paul Channon, the Transport Secretary, said the concession was a victory for commonsense: "We have argued all along that we must have time to strengthen our bridges so that they are strong enough to take the heavier weights. The Transport Department said yesterday it would cost about £700m to strengthen 10,500 bridges currently capable of carrying lorries of 7%

The money would be found

nance budget and would not affect government plans to increase spending on new

Mr Garry Turvey, director general of the Freight Transport Association, yesterday criticised the decision to postpone the introduction of 40-tonne lorries. He said the decision would cost British industry £2bn in unnecessary operating costs over the next 10 years and reduce the competi-tiveness of British companies lands exporter shipping 1,000 tonnes to Milan would be able to make three fewer lorry journeys and save about £5,000 in ferry fares and overnight accommodation by using 40-

It said the Government should invest immediately in strengthening bridges on trunk roads so these could carry the heavier lorries as soon as pos-sible after 1992, when trade barriers between EC countries are due to be dismantled.

Reforms urged over law on bulk buying

By Robert Rice

THE LAW Commission, the Government's law reform body, has called for a change in the law to improve the rights of people who buy goods

Although the problem can arise in the consumer sales context, the perceived inade-quacies of the law have hit international commodity trad-

The problem for interna-tional commodity traders relates particularly to carriage of goods by sea. Where, for example, a trader has bought part of a larger bulk cargo which is found to be damaged when it reaches the port of discharge, the buyer may be with-out a remedy even though the carrier of the goods caused the damage. This is because there is normally no contract; between the buyer and the car-

The Bills of Lading Act 1855 allows the buyer to sue the carrier, but only if ownership of the goods passes to the buyer at the same time as the trans-fer of the bill of lading.

which the ownership is transferred to the buyer is usually 112, HMSO, £2.70.

delayed until the goods are separated out at the port of discharge. Only the buyer of the entire bulk would have a remedy against the carrier in such circumstances.

The Commission proposes that the Sale of Goods legislation should be amended to allow buyers of part of a bulk cargo to acquire ownership in the goods before their respec-tive parts have become separated from the rest of the bulk.
In terms of the carriage of
goods by sea, the commission
believes the Bills of Lading Act
1855 should be amended to allow buyers of parts of the bulk to sue the carrier even though ownership in the goods did not pass to them. This would resolve a prob-

lem that has been increasing in-recent years. Most European commodity traders trade on English law terms: It is important for invisible earnings for them to continue to do so. The export of British law and the use of London as the arbitration capital of the world is part of the package.

May we help you?



N Sea platform workers continue 24-hour strikes

THE ROLLING programme of contractors stopped work for 24-hour strikes by construction sub-contractors in the North Sea continued to affect off-shore platforms yesterday.

It was estimated that the strikes affected about 21 rigs, although platforms hit by industrial action on Monday had returned to normal. Union officials estimated

that about 1,300 men were involved in the stoppage which affected the Brent, Thistle, For-ties and Brae fields. Among platforms affected yesterday were the two Beryl platforms operated by Mobil, the US group, where 183 sub24 hours.

The strikes by workers engaged in maintenance and repair work do not affect oil production. They are aimed at securing improved pay and conditions for construction workers employed by sub-contractors.

The AEU engineering union wants the agreement which covers pay and conditions for pre-production work on platforms to be extended to cover work after platforms come on stream. This would mean sub-

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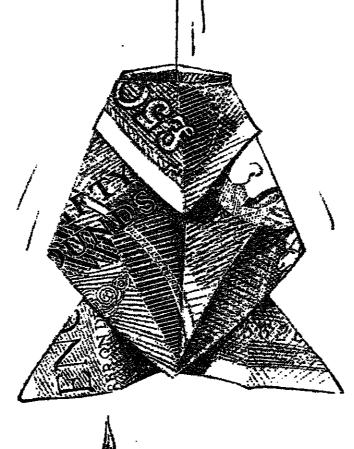
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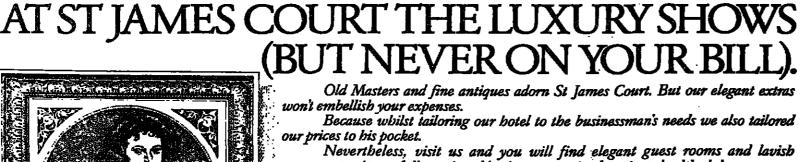
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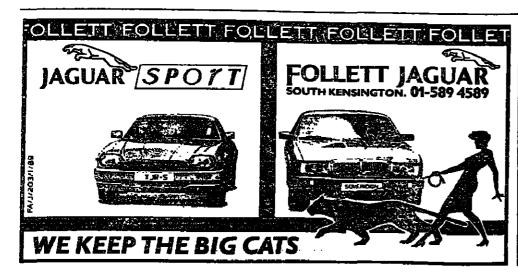
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FT LAW REPORTS

Digest of cases reported in the Easter Term

FROM MAY 16 TO MAY 26

X v Y and Y Establishment (FT, May 16)

Pending the trial of proceed-ings against the defendant in Paris, the bank applied for a Mareva injunction to the English court against the English court against the defendant who was not domiciled in a Convention country. He submitted that the bank's claim was not within RSC Order 11 rule 1(1)(b) in that the injunction was sought, not as part of substantive relief, but in aid of foreign proceedings. Rejecting the submissions, Mr Anthony Diamond QC stated that for section 25 of the Civil Jurisdiction and Judgments that for section 25 of the Civil Jurisdiction and Judgments Act 1982 to apply the proceedings had to be commenced in a contracting state other than the UK, in the present case France, and second the proceedings had to be related to "civil and commercial matters." Ancillary relief within section 25 entitled the judge to issue the originating summons and to serve it in Saudi Arabia and to serve it in Saudi Arabia where the defendant was domi-ciled.

Re Piccadilly Radio plc (FT, May 17)

Piccadilly held a licence to operate a commercial radio station from IBA which had the power to determine it if there was a change in shareholding of more than 10 per cent of the voting rights. The articles of association contained provisions designed to protect it from the risk of such determination. In order to further a merger the applicants sought to disenfranchise two registered shareholders by claiming that their shareholdings were transferred to them in breach of the articles. Refusing the application, Mr Justice Millett stated that the IBA was aware of the facts and had made no complaint and there was no complaint and there was no suggestion that the licence was in danger. The applicants were aggrieved because the shares had been transferred to a com-pany unwilling to support the offer. A less meritorious claim was difficult to imagine and the purposes for which it had been made was foreign to the statutory remedy which the applicants had invoked.

Continental UK v Cargill UK Ltd

(FT, May 19) Under a nomination clause in a free on board contract, the buyers gave definite notice of one vessel which was unable to arrive in time. They then purported to substitute another vessel. The sellers refused to accept, the main reason being that the market had moved upwards, and cancelled the contract. Rejecting an appeal against an arbitral award in the sellers' favour, upheld at first instance, the Court of Appeal stated that it was impossible to attribute to the narties a mutual intention that the buyers could nominate another vessel notwithstanding it was too late to give pro-visional or final notice in respect of that vessel.

Regina v Secretary of State for Transport, ex parte Factortame Ltd and Others (FT, May 23)

The appellants' 95 fishing ves-

sels failed to satisfy new regu-lations for the registration of British vessels enacted in 1988. They applied for judicial review to challenge the legality of the legislation on the ground that it contravened EC law. Pending application to the ECJ, the Divisional Court ordered interim relief by granting an injunction against the Secretary of State from enforc-ing the legislation in respect of the companies' vessels. The Secretary of State's appeal was allowed by the Court of Appeal and the interim injunction set aside. On the companies' appeal to the House of Lords, it was held that an English court could not decide whether EC law obliged it to make an interim order protecting putative rights. The appeal would be adjourned for the ECJ to rule on the preliminary issue as to whether, where a party claimed EC rights which arguably existed and had direct effect, the national court could give interim protection by suspending the application of national measures pending its

Baly and Another

Barrett and Others

(FT, May 24)

Just under a year after the writ was issued, the liquidators

applied ex parte for an exten-sion supported by an affidavit that investigations were not yet completed; that the issues were complex and that working papers were voluminous. On the defendants' application to have the writ set aside, the plaintiffs' affidavit made clear that the effective reason for delay was that they had lacked the funds necessary to enable the funds necessary to enable them to prosecute the action properly following service. On the defendants' appeal to the House of Lords, it was held that, in following the principle that the power to extend a writ should only be exercised with good reason (see Kleinwort Benson [1987] AC 597), and while lack of funds could amount to good reason for extension, in the present case no satisfactory explanation had been given for the failure to provide the necessary funds in time to avoid delayed service. that the power to extend a writ

Barclays Bank of Swaziland Ltd v Hahn

(FT, May 26) A writ was served at the defen-A writ was served at the defendant's house under Order 10 rule 1(2)(b) by putting it through the letter box of the flat which he owned. Later that day, when the defendant arrived at Heathrow, he was told of the unopened envelope and he took action to avoid receiving it. Only his wife went to the flat and then they both spent the night at an hotel and spent the night at an hotel and left for abroad the next morning. In holding that the writ had been properly served, the House of Lords stated that subsection (3) of the rule provided that the date of service, "unless the contrary was shown," was deemed to be the seventh day after the day on which the copy was inserted through the letter box. Beyond a scintilla of doubt, the bank could "show the contrary" – that the deemed date of service ought to be displaced by the date of service - because on the day that the defendant landed at Heathrow, he acquired knowledge of the writ when he was within jurisdic-

Aviva Golden
This concludes the digest of Easter Term cases. Previous parts appeared on May 31 and June 2.

Notice of Redemption and Termination of Concersion Rights

KOMATSU LTD.

74% Convertible Debentures due June 30, 1990

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of the Indenture dated as of July 1, 1975, as supplemented by a First Supplemental Indenture dated as of September 1, 1982 (effective as of October 1, 1982) between Komatsu Ltd. (the "Company") and First National City Bank (now Citibank, N.A. as "Trustee") under which the above-designated Debentures were issued, all of the outstanding Debentures have been called for redemption on June 30, 1989, at a

issued, all of the ourstanding Dependires have been called for redemption on June 30, 1989, at a price equal to 100% of the principal amount thereof.

The Debentures will become due and payable and, UPON PRESENTATION AND SUR-RENDER THEREOF (those Coupon Debentures to have all coupons appertaining thereto maturing after June 30, 1989) will be paid on said redemption date at Citibank, N.A., 1! I Wall Street, Corporate Trust Services, 5th Floor, New York, NY 10043, principal offices of Citibank, N.A. in Amsterdam, Brussels, Frankfurt/Main, London, Milan, Paris and Citibank (Luxembourg) S.A., and the principal offices of J. Henry Schroder Wagg & Co. Ltd. (London). Banque Europeenne de Tokyo, S.A. (Paris), Kredietbank S.A. Luxembourg (Luxembourg), The Fuji Bank, Limited (London). The Bank of Tokyo, Ltd. (London) and The Sumitomo Bank,

Fuji Bank, Limited (London), The Bank of Tokyo, Ltd. (London) and The Sumitomo Bank, Limited (London), as the Company's Paying Agents. From and after said redemption date, interest on said Debentures will cease to accrue.

Interest payable June 30, 1989 to bolders of fully Registered Debentures shall be paid to the persons in whose names the Debentures are registered at the close of business on the Regular Record Date which shall be June 15, 1989 and said interest shall be mailed to the registered holders. If the holder does not elect to convert, coupons maturing June 30, 1989 should be detached and presented for payment in the usual manner.

The Debentures called for redemption may be converted at the option of the holders thereof into Common Stock of the Company, American Depositary Receipts ("ADRs") or European Depositary Receipts ("EDRs") representing Common Stock of the Company at any time prior to, but not after, the close of business on June 27, 1989 at a conversion price of 332.10 Japanese Yen per share of Common Stock. A cash adjustment equivalent to accrued interest for the period between January 1, 1989 through March 31, 1989 shall be paid by the Company for those Debentures converted during April 1, 1989 to June 27, 1989. At the Close of Business on JUNE 27, 1989 SUCH CONVERSION RIGHT'S WILL TERMINATE AS TO ALL DEBENTURES BEING REDEEMED.

By: CITIBANK, N.A., as Trastee

Dated: May 17, 1989



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FT LAW REPORTS

Bank produces inquiry documents

REGINA v SOUTHWARK charges. The files were not covered by the search warrant. On October 17: Judge Pearlman made an order (the "Norlega") CROWN COURT, EX PARTE A Queen's Bench Division (Divi-sional Court): Lord Justice Watkins and Mr Justice Brooke: May 24 1989

THE RISK of reprisals against the holder of documents needed for drug trafficking needed for drug trafficking investigations in the UK or in a country which is party to the Narcotic Drugs Convention, should not influence a circuit judge when deciding whether or not to order their production to a costoms officer, or whether to investe conditions to a costoms officer, or whether to investe conditions. whether to impose conditions on any order made. And a cus-toms officer to whom docu-ments are produced under an unconditional order may send copies abroad for the purpose of investigations in a Conven-tion country, but may not send the originals in the absence of further order.

The Divisional Court so held when granting an application by the Commissioners of Customs and Excise to quash conditions imposed by Her Honour Judge Pearlman at Southwark Crown Court on an order for production of documents by the Bank of Credit and Conditional Pearlman Actional Southwark merce International SA. An application by the bank to vary or quash two unconditional orders were refused.
LORD JUSTICE WATKINS
said that Mr Asif Abdul Murim
Baakza was employed by the
bank at its Leadenhall Street

On October 11 1988 he was one of a number of the bank's officers who were indicted in the US for money-laundering and drug offences. The bank and its associated companies were also named in the indict-ment. Mr Baakza had been charged in the UK with a drug trafficking offence. Mr Syed Ziauddin Ali Akbar

was a director of two compa-nies of commodity brokers. He had an account at the bank, and was alleged to have been involved in money-laundering offences through that account. He had been charged with a drug trafficking offence in the UK, and was named on the US

On October 10 1988 customs officers searched Mr Baakza's office at Leadenhall Street. They saw files relating to bank accounts involving General Noriega of Panama, who had been named in another US indictment on drug trafficking

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order') for production of the files, under section 27 of the Drug Trafficking Offences Act

The bank applied to the court for variation or discharge of the order. The nudge heard the application and imposed conditions which deprived the order of its usefulness. The Customs and Excise Commis-

sioners sought to have the conditions quashed.

The judge declined to vary or discharge orders (the "Baakza" and "Akhar" orders) made by two other circuit judges. The bank sought to have those orders quashed or made subject to conditions similar to those imposed on the Noriega order.

The 1986 Act was designed to assist inquiries into drug trafficking, no matter where it took place.

Under section 27(1) a cus-

onner section 27(1) a cus-toms officer could apply to a circuit judge for an order for production of material "for the purpose of an investigation into drug trafficking." By sub-section (2) the judge "may" order production on fulfilment of the conditions in subsection of the conditions in subsection (4), that there were reasonable grounds for suspecting the material was likely to be of substantial value to the investigation, and for believing it was in the public interest that it should be produced.
Section 22 of the Police and

Criminal Evidence Act 1984, as modified by section 29(1) of the 1986 Act, provided that anything produced to a customs officer under a section 27(2) order might be retained for as long as was necessary, "(i)for use as evidence at a trial for an offence or (ii) for forensic offence or (ii) for forensic examination or for investiga-

examination or fur investiga-tion into drug trafficking."

The first issue was whether section 27 of the 1986 Act referred only to an investiga-tion conducted by a UK cus-toms officer in the UK.

Article 4 of the Single Con-

vention on Narcotic Drugs signed in New York in March 1961, provided that the parties should take such legislative and administrative measures as might be necessary to give effect to the Convention and to co-operate with other states. By article 35 they were to assist each other in the campaign against illicit traffic in narcotic drugs, and to co-oper-ate closely with each other.

Drugs Act 1971 and the 1986
Act, both of which referred to
"corresponding laws" in other
Convention countries, the
draftsman had the UK's international obligations under the

Convention well in mind.

There was nothing in section

27 (1) which required that the relevant investigation should necessarily be conducted by UK customs officers. That would be contrary to the legis-lative purpose of advancing

international co-operation.

When a production order was sought to assist a foreign investigation, that must be made clear on the face of the information laid by the applicant, and evidence must be adduced to show the investigation was into possible breaches of a "corresponding law." The second issue was

whether "may" in section 27 (2) meant "must" — in other words, whether the judge had a discretion to make or not to make a production order once the subsection (4) conditions were satisfied.

There was nothing in section 27(2) to suggest that Parlia-ment did not intend the judge to have a discretion. If it had intended her to have no discre-tion it could have used "shall." The third issue was whether "retained" in section 22(1) pre-cluded the commissioners from sending the produced material or copies to a law enforcement agency in another Convention

submitted that "retained" in the present context meant that the customs officer had no power to let the produced material out of his possession by sending it to a foreign law by sending it to a toreign law enforcement agency, nor might he send copies.

If his interpretation were correct, the Parliamentary pur-

pose of giving aid to drug trat-ficking investigations in for-eign Convention countries would be frustrated. Such a result could not possibly have been intended.

The use of "retained" must mean that the customs officer was entitled to keep the pro-duced material back as against the owner or possessor for as long as the 1986 Act permitted. Thus, he would be entitled to make the information in the material available by sending copies to the foreign agency, without parting with the mate-rial itself.

The fourth issue was whether the customs officer

The draftsmen of the 1984 Act distinguished in section 22(1) between retention for use as evidence at a trial, and retention for forensic examina-tion or for investigation. The terms of section 22(1)(a), which referred to trials in the UK, had not been modified by section 29 of the 1986 Act.

Accordingly, in the absence of any further order, customs officers were not at liberty to send originals overseas for the purposes of criminal trials in other jurisdictions.

Judge Pearlman was per-suaded that the section 27(4) conditions were satisfied. Howconditions were satisfied. However, she was unwilling to make an order unless the commissioners gave an undertaking that they would not remove produced documents or copies from the jurisdiction without leave of the court; nor send or show them to any foreign law embrorement agency eign law enforcement agency without leave.

The imposition of those con-ditions robbed the Noriega order of most of its usefulness, because the judge was well aware that the UK investigations into General Noriega's alleged money-laundering activities were being conducted in collaboration with the US.

The reason the judge imposed the conditions was there was evidence of risk of reprisals against members of the bank's staff in Panama if the conditions were not

That evidence was not of a nature to influence UK judges in the exercise of their discretion. There was an in terrorem air about it. The courts were not to be deflected, for fear of reprisals, from aiding the international battle against drug trafficking.

For those reasons certiorari should go, and the variation Notiega order containing the offending conditions was

The unconditional Baakza and Akbar orders were prop-erly made. The bank's application was refused.

For the bank: Peter Cresswell

QC and Ali Malek (Stephenson Harwood); Colin Nicholls QC and Clare Montgomery (Peters For the commissioners: Andreu Collins QC and David Ellis

(solicitor, HM Customs and Excise). Rachel Davies

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by

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Copies of the Information Statement and Proxy and Tender Form are available upon request to Liegey & Co., financial advisor to American Medical International, Inc., in London (01-929-5252) or New York (212-888-4560) and from the Depositary Offices listed at the end of the Notice of Meeting appearing below.

THE OFFER WILL EXPIRE AT 10:00 A.M. LONDON TIME ON JUNE 23, 1989 UNLESS EXTENDED. AMERICAN MEDICAL INTERNATIONAL N.V. Dated: May 25, 1989

NOTICE OF MEETING AMERICAN MEDICAL INTERNATIONAL N.V. Zero Coupon Guaranteed Bonds Due August 12, 2002

NOTICE IS HEREBY GIVEN that a meeting (the "Meeting") of the holders of the Zero Coupon Guaranteed Bonds Due August 12, 2002 (the "Bonds") of American Medical International N.V. (the "Issuer") has been called by the Trustee at the request of the Issuer. The Meeting will be held at Morgan Guaranty Trust Company of New York, 1 Angel Court, London EC2R 7AE, England on Friday, June 23, 1989 at the hour of 10 o'clock in the

At the Meeting, Bondholders will be asked to approve amendments (the "Amendments") to the Indenture, dated as of August 12, 1982 (the "Indenture"), among the Issuer, American Medical International, Inc. as guarantor (the "Guarantor"), and Morgan Guaranty Trust Company of New York as Trustee (the "Trustee"), pursuant to which the Bonds were issued. Such Amendments will eliminate Sections 4.06 through 4.11 of the Indenture, which contain the financial covenants of the Issuer and the Guarantor.

In accordance with the provisions of the Indenture, the resolutions to be submitted to the Meeting, in order to In accordance with the provisions of the indentitie, the resolutions to be submitted to the letting, in other to be effective with respect to the Bonds, must be approved by persons entitled to vote the lesser of (i) a majority in principal amount of the Bonds at the time outstanding or (ii) 75% in principal amount of the Bonds represented and voting at the Meeting, provided that a quorum is present. The persons entitled to vote a majority in principal amount of the Bonds outstanding shall constitute a quorum. In the absence of a quorum the Meeting may be adjourned. At an adjourned meeting persons entitled to vote 25% in principal amount of the Bonds at the time outstanding shall constitute a quorum.

In order to be entitled to vote at the Meeting or adjournments thereof a person must either be a holder of one or more Bonds or a person appointed by an instrument in writing as proxy by the holder of one or more Bonds deposited at any of the offices referred to below ("Depositary Offices") and in the Information Statement in accordance with the provisions of the Information Statement and Proxy and Tender Form. The holding of Bonds shall be proved by production at the Meeting or such adjournments of Bonds or of a dated deposit certificate extented by a bank (which may be the Trustee), banker, trust company or member of the New York, London or other recognized stock exchange certifying that on such date Bonds bearing specified identification numbers were deposited with or exhibited to such bank, banker, trust company or stock exchange member. The signature on any proxy deposited as aforesaid must be witnessed or guaranteed by a bank (which may be the Trustee), banker, trust company or member of the New York, London or other recognized stock exchange.

Copies of the proposed first supplemental indenture setting forth the Amendments are available for inspection during normal business hours at, or can be obtained on application to, any of the Depositary Offices. A form of proxy and deposit certificate appropriate for use at the Meeting or adjournments thereof together with instructions for voting by Bondholders at the Meeting is set forth in the Information Statement and Proxy and Tender Form which can also be obtained at any of the Depositary Offices.

DEPOSITARY OFFICES

Morgan Guaranty Trust Company of New York 30 West Broadway New York, New York 10015 Attention: Corporate

Morgan Guaranty Trust Company of New York

1 Angel Court London EC2R 7AE Attention:

(01) 929-2300, Ext. 3514 Banque Internationale à Luxembourg S.A. 2 Boulevard Royal Lintembourg
Attention: Securities Department

Dated: June 7, 1989

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FIDELITY FAR EAST FUND

Notice of Annual General Meeting

NOTICE is hereby given that the Annual General Meeting of the Shareholders of FIDELITY FAR EAST FUND, a societe d'investissement a capital variable organized under the laws of the Grand Duchy of Luxembourg (the "Fund"), will be held at the registered office of the Fund, 5, Boulevard de la Foire, Luxembourg, at 11.00 a.m. on June 27, 1989, specifically, but without limitation, for the following

Presentation of the Report of the Board of Directors;
Presentation of the Report of the Auditor;
Approval of the balance sheet and income statement for the fiscal year ended February 28, 1989;
Discharge of the Board of Directors and the Auditor.
Ratification of the co-option of Jean Hamilius as a Director of the Fund in replacement of Compagnie

6. Election of eight (8) Directors, specifically the reelection of the following eight (8) present Directors: Messrs. Edward C. Johnson 3d, William L. Byrnes, Charles A. Fraser, Jean Hamilius, Hisashi Kurokawa, John M.S. Patton, Harry G.A. Seggerman and H.F. van den Hoven.

Hoven.
7. Election of the Auditor, specifically the election of Coopers & Lybrand, Luxembourg:
8. Declaration of a cash dividend in respect of the fiscal year ended February 28, 1989, and authorization of the Board of Directors to declare further dividends in

respect of fiscal year 1989 if necessary to enable the Fund to qualify for "distributor" status under United Kingdom tax law.

9. Consideration of such other business as may properly

Approval of the above items of the agenda will require the affirmative vote of a majority of the shares present or represented at the Meeting with no minimum number of shares present or represented in order for a quorum to be present. Subject to the limitations imposed by the Articles of Incorporation of the Fund with regard to ownership of these additions and the agreement of the present than there shares which constitute in the aggregate more than three percent (3%) of the outstanding shares, each share is entitled to one vote. A shareholder may act at any meeting by proxy.

BY ORDER OF THE BOARD OF DIRECTORS

BUSINESS LEADERSHIP IN THE COMMUNITY

The Financial Times proposes to publish this survey on:

14th July, 1989

For a full editorial synopsis and advertisement details, please contact:

> Rachel Fiddimore on 01-873 4152

> or write to her at:

Number One Southwark Bridge London SEI 9HL

FINANCIAL TIMES

Why roles in recruitment could soon reverse

By Michael Dixon

SOMEWHERE in Britain flourishes a headhunter with a peculiar weakness. It would be wrong to name him because the flaw has not prevented him from being highly successful in his trade. On the contrary, his skill at filling high-level jobs for companies has enabled him to build up a sizeable consultancy.

The trouble was that, while clearly excellent at finding first-rate people for client organisations, he had a rotten record in recruiting for himself. So a year or two ago when - perhaps by the law of averages - he found himself with a couple of capable senior colleagues, he delegated them to select staff for the consultancy which has apparently since gone from strength to strength.

Despite the happy ending, there remains the question of how the same recruiter could do be so good at meeting the needs of other employers and

so bad at serving his own.
The most plausible answer the Jobs column can think of lies in something that people seeking a career move seem often to forget. They tend to assume that whoever is offering a post is in the buyer's position, and that they are in the seller's role. But if the offer is being made through a recruitment

always so. When the headhunter in question was selecting for his own outfit, he was certainly acting as buyer. And his poor performance at it probably had something to do with the fact that most of the no-noes he wished on himself had not already made their mark in the subcontracted recruiting trade. They were typically company personnel chiefs or line executives whose

responsibilities had included taking on staff.

By contrast, the people he shortlists for posts with his client companies are almost always established successes in the same type of work. in the same type of work. Moreover, since the decision on who to pick from the shortlist is made by the employer, in the last analysis he is not the buyer. What he has to do is persuade enough evidently well qualified people to put themselves forward as candidates. So the explanation for his success as a consultant could well be that, although bad at buying

people's services, he is good at selling jobs. The distinction is one that people on the candidates' side of the market would side of the market would probably do well to keep in mind in the years ahead. With worsening shortages of executive and high-grade

consultancy, that is not specialist skills in the offing, it seems likely that those on the employers' side will be starved out of their longstanding conviction that nature ordains them to be the buyers, and into honing their job-selling skills.

If so, unless move-seekers realise that their role has also turned the other way round, they will be at increasing risk of being lured into making a wrong move. For few people can be sold a pup as easily as those under the illusion that they are doing the selling themselves.

Greece

TODAY'S first job is in Athens: for a senior treasury specialist being sought by recruiter John Piperoglou of the Stedima consultancy for an international bank's fast growing branch in Greece. Since he may not name his client, he promises to respect applicants' requests not to be identified to the employer at this stars. The same applies this stage. The same applies to the other headhunters to be mentioned later.

Joining at assistant vice-president rank, the recruit will have the prime task of building the treasury business initially through the existing client network, but progressively by developing new products and customers.

In addition, the post entails supervising dealing-room operations in securities and the like.

Candidates should be successful in similar work with a highly reputed bank, and if they have experience in foreign-exchange dealing too, so much the better. They also need to be skilled communicators who are bilingual in English and Greek, although I have an idea that a fair working knowledge of Greek as distinct from fluency would

be enough.
The salary will be the exchange equivalent of at least £20,000. While that may seem low, the average salary of 38 chief executives of assorted Greek companies covered by the latest Wyatt group survey was £28,500. Perks include car allowance. Inquiries to Mr Piperoglou at 29 Michalakopoulou St, 115

28 Athens; tel Athens 7245-541, fax 7249-508. Finance chief

WHENCE to North-east England, where a privately owned construction group is seeking a highly experienced financial director through the agency of headhunter Andrew Nicholson. The newcomer – who, rightly or wrongly, the employer has

decided must be aged at least 50 - will be responsible for all aspects of the financial and company secretarial roles, the main task being to develop the systems of management information and control.

Candidates should aiready have led the financial and administrative management functions of a company in construction or a comparable

industry. Salary up to £35,000 plus "fully expensed" car.
Inquiries to Mr Nicholson at The Estate Office, Thorganby, York YO4 6DA; tel 0904 89767.

Consultants

RECRUITER Garry Long is in the market for a collection of consultants on behalf of three different organisations.

The first — a London-based consultancy which is not linked with an accountancy concern - wants a director-level recruit with up-to-date know-how in bank-ing and insurance as distinct from broking, and experience as a management consultant in the angle of the state of the in the not too distant past. Since the prime task will be to win a strong share of the finance-sector market for consultancy services, proven business-getting skills are

Pay at least £50,000, with

fringe benefits open to negotiation.

The second employer is an accountant-linked consulting group with various offices southwards of Manchester, allowing the two senior people it is seeking a choice of main place of work. One will lead an informa-

tion technology consulting group; the second a financial management team. Both need current consulting experience and ability to manage high-grade staff, plus strategic and technical exper-tise in the relevant specialist

Pay "close to £50,000". The third employer is again a London-based consultancy which is seeking a couple of consultants with first-hand knowledge of the public sector, particularly local government and public utility concerns. One will be a human resources specialist, a human resources specialist, who does not need to have worked as a consultant before. The other, who must have experience in the role, will concentrate on "value for money" projects and issues of policy and strategy.

In their case the pay will be about £40,000, with fringe benefits negotiable.

Inquiries to Garry Long

Inquiries to Garry Long Associates, 66 Gloucester Place, London W1H 3HL; tel 01-935 3320, fax 01-935 4077.

Property **Finance**

To £50,000

We are currently seeking a number of experienced property financiers for a variety of UK, European and US banks. Suitable candidates will have a minimum of three years' in the UK market, experience of the full range of property related transactions and established contacts in this specialist field. These roles present excellent opportunities for innovative, property bankers.

Interested candidates should contact Niall Macnaughton or Mark Hartshorne on 01-831 2000, or write to them at Michael Page City, 39-41 Parker Street, London WC2B 5LH.

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Salary is negotiable and more experienced applicants should not be deterred.

inquiries and applicants with CV should be directed to:-

> Robert Keith TC Coombs & Co 4/5 Bonhill Street London. EC2A 4BX Tel 01-588-6209

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CONSOLIDATOR - a private Swedish property development and investment company with a global property portfolio valued at approximately GBP 400 million - is expanding in EC countries.

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We require people with a talent for business. analytical capacity, flair for identifying business opportunities, and is attracted by a fast and dynamic working environment.

Property traders
with responsibility for different business areas, ie industrial property, office property and commercial property. You will actively pursue business opportunities in the market and purchase property in first class locations in expanding cities and towns. If you have a well documented experience in the property business. Please call Mr Jan Axelsson for an initial confidential discussion, tel: +46-8-723 0500.

Trainees

who will work together with our property traders with market prospecting, property analysis and market analysis with the objective to become a property trader.

You are a graduate surveyor or a graduate from business school, 24 - 28 years of age with a good sense for business and lots of initiative. Applicants should contact Messrs Jan Nilsson or Mats Naijström, tel: +46-8-723

Interested to join? Please apply in writing, in the strictest confidence indicating the position sought and including a fully detailed CV; latest by June 16th, 1989, to:

> CONSOLIDATOR 140 Park Lane, Suite 15, LONDON, W1Y 3AA

ACCOUNTANT, SOLICITOR OR STOCKBROKER:

Preferably qualified, aged 25-35. Required to join fast growing financial PR/Investor Relations agency in Birmingham. The position involves advising public company Chairmen/ Finance Directors/Executives on City affairs and liaising with Stockbroking analysts, Institutions and City journalists.

Excellent remuneration package and prospects. Apply in first instance, enclosing c.v. to:

> Ian M Hunter, Director CITIGATE COMMUNICATIONS Fountain Court, Steelhouse Lane, Birmingham B4 6DR. Tel: 021-233 3050.

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A recently (or nearly) qualified Actuary is sought by a well-established and highly regarded General Insurance Company, which is part of a major international insurance Group, and based on the South Coast of England. This is a new position, created as a result of the Company's successful growth, and recognising the value of actuarial expertise. Reporting to the Company Actuary, the person will take over a wide range of duties covering all aspects of General Insurance: International Business written in the London Market and Fire, Accident, Motor and Private Medical Insurance written in the UK.

The position will offer an ideal opportunity to become involved with, and gain wide-ranging experience in, the rapidly growing field of general insurance actuarial work. Previous experience may have been acquired in either a General or a Life company. The person appointed will require good communications skills.

Career prospects are excellent and could lead to international coportunities within the Group. The Company offers a salary unlikely to be less than £30,000, plus a profit related bonus, subsidised mortgage, fully expensed car and other benefits. Please reply in the first instance to Keith Fisher, quoting Ref. 962, at Overton Shirley & Barry, Prince Rupert House, 64 Queen Street, London EC4R 1AD. Tel: 01-248 0355.

Overton Shirley & Barry

CORPORATE BANKING **ACCOUNT MANAGER**

PRIVATbanken Limited, the leading Danish Bank in the U.K., are looking for an additional Account Manager to work in their Corporate Banking - Anglo Danish Department.

Applicants should be aged mid to late 30's, educated to at least degree level, with ideally an appropriate professional qualification.

The position calls for an individual who has established a thorough knowledge of the Scandinavian markets. The successful applicant will be a well rounded commercial banker, with strong marketing skills complemented by the necessary analytical skills to structure and negotiate facilities and/or having developed financial and marketing expertise in an internationally oriented corporation.

The successful candidate has to share our Vision from which our strategy and day to day activities develop.

The Vision

PRIVATbanken Limited is a dynamic marketeer and provider of high quality financial services offered to selected customers in carefully defined market niches. Success is achieved by attracting and retaining responsive, highly skilled and motivated employees striving through pro-active marketing, high level of service, specialist knowledge and constant innovation, to satisfy the needs of customers and to develop new market niches for our services.

The remuneration package for this position includes a competitive salary together with subsidised mongage, private medical care, company car, non-contributory pension and life assurance benefit.

> Please write with full C.V. to: Mrs M S Unwin, Personnel Manager **PRIVATbanken Limited** 107 Cheapside London EC2V 6DA



Deputy Managing Director

Salary to £35k + Car + Benefits

Our Client is part of an established European Group which provides specialist professional clearing services on the London Traded Options Market of the International Stock Exchange and the London International Financial Futures Exchange. They are currently seeking a Deputy Managing Director, with the ability to make an immediate and significant contribution to the continuing growth and profitability of the company.

make an immediate and significant contribution to the continuing growth and profitability of the company.

Reporting to the Managing Director, the appointee will be a member of a small professional team. They will be expected to play a leading role in the strategic expansion of the Group by working closely with the company's clients who are all market professionals in the various securities markets.

Candidates aged between 28-35 will be energetic and commercially orientated business people with a sound working knowledge of the securities industry, backed by a successful and progressive track record. They will be self motivated with good organisational skills and the strength of personality to contribute directly and efficiently to the company's business development. Long-term career prospects are excellent.

If you meet these demanding criteria, please send a detailed C.V. including current salary, to Carol Jardine, quoting reference LM 884 at Spicers Executive Selection, 13 Bruton Street, London W1X7AH.



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Current requirements call for a professional Spot F/X trader, probably mid/late 20's, with 3 years' active dealing experience in the major European currencies.

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Applicants, educated to degree level, should have an accountancy/systems background and experience in the financial services sector. Whilst not essential, preference will be given to candidates who ha

preference will be given to candidates who have knowledge of the international equities markets. A generous salary/benefits package will be offered to the right applicant. Applicants possessing the above qualifications and experience should write, enclosing a comprehensive CV. to: Alun Spillman, Director, Ref 232, Associates in Advertising, 5 St. John's Lane, London ECIM 4BH.



Mitsubshi Finance International Limited INTERNATIONAL ECONOMIST/BOND ANALYST

Mitsubishi Finance International Limited is the major securities and investment banking arm of The Mitsubishi Bank, Limited, principally concerned with the underwriting and marketing of fixed-rate, floating rate and equity-related securities, and fund

An opportunity has arisen within our research team for an International Economist/Bond Analyst. The suitable applicant will be responsible for running programs and producing graphics for several publications on the International bond markets. He/ she will also make written research contributions and brief the sales team on the signicance of data releases.

Applications are invited from graduates, preferably with 1-2 years experience gained in a Securities Trading/Investment environment. The suitable applicant should be computer literate, have a flair for graphics and posses excellent communication skills.

Salaries will be negotiable according to age and experience and benefits will be consistent with usual banking practice.

Interested applicants should write in strictest confidence enclosing a full C.V. to: Annette Wolfe, Personnel Assistant, Mitsubishi Finance International Limited, 1 King Street London EC2V 8EB

Samuel Montagu & Co. Limited Corporate Finance

Samuel Montagu is a leading UK Merchant Bank To be considered for these roles you are likely and a major force in the field of corporate finance advice. The Corporate Finance department provides financial advice to a wide range of both established and developing companies both in the UK and internationally. Samuel Montagu has an innovative approach to transactions which is best demonstrated by their recent track record.

 UK advisers to Maxwell Communication Corporation on the successful US\$2.6 billion bid for MacMillan Inc and the US\$750 million acquisition of Official Airline Guides.

 Successful £750 million contested bid on behalf of Mecca for Pleasurama.

 WPP's spectacular \$566 million acquisition of the US advertising group, JWT Group.

 Advised Richard Branson on the successful management buy-out of Virgin Group.

The department now seeks high calibre individuals at both assistant manager and executive level.

• aged 24-30

• either professionally qualified as an ACA or solicitor working within a major City professional practice

or an experienced corporate financier with at least 18 months' directly relevant experience. in another merchant bank or stockbroker.

In addition it is essential that candidates possess the necessary initiative, ambition and drive to enable them to contribute both to their own success and that of the department's.

The financial rewards will reflect the age and experience of the appointed candidates. This will not be a limiting factor for the right individual. To discuss these opportunities in greater detail, please call either Paul Wilson or Penny Bramah

on 01-831 2000 or write to them at Michael Page City, 39-41 Parker Street, London WC2B 5LH.

Michael Page City International Recruitment Consultants London Paris Amsterdam Brussels Sydney

Treasury Manager Highly Professional, Young and Ambitious

Are you identifiable as an individual with a rare flair for the Treasury function as evidenced by the practical experience you have gained in the last year or so within an international organisation? Have you the business acumen and real ability to progress in a fast moving environment where the Treasury Department is regarded as having a high profile within this major Group?

Would you relish the role of Treasury Manager within an expanding Group with a sophisticated Treasury operation where the size and complexity of the Treasury operation increases in keeping with the rapid global expansion of the Group's activities? Then join this Treasury Department where you

will be a key member of a small, but highly professional, team which plays an increasingly important role within the Group as a consequence of the funding requirement of the expansion which has taken place both through acquisitions and internal growth.

Your responsibilities will be wide ranging including management of borrowings, funding strategies, the further development of Treasury systems and control procedures and the monitoring of interest rate risk exposure.

Well versed in modern Treasury techniques, you are likely to be a graduate and ideally posse relevant professional qualification coupled with a

Simpson Crowden **CONSULTANTS**

personality and manner which enables you to relate at the most senior levels both internally and externally. In brief, you are quite clearly a Treasury Manager with demonstrable potential.

The remuneration is negotiable, reflecting the importance attached to the role, and the usual benefits one expects from a major Group. The post is located at their prestigious HQ in Central London.

Please write in complete confidence to the Company's adviser, Peter S. Findlay, Director, Simpson Crowden Consultants Limited, 97/99 Park Street, London W1Y 3HA. Telephone 01-629 5909.

PRIVATE CLIENT MANAGER

East Anglia - c. £30,000 and benefits

Our client, a major International Financial Group, is seeking to recruit a Private Client Manager to join its Trust Company.

The jobholder will be responsible for administering and marketing the Company's private client services and for managing a sizeable department.

The ideal background of the successful candidate will be several years' experience in the private client and/or trustee area with sound knowledge of fund management and trust administration. An understanding of relevant computer systems will be a further advantage, together with a positive outlook and good communication skills.

The Company is an equal opportunities employer. Please send full career details, in confidence quoting reference FU7274, to Tony Bell, Adnams Bell Thomas and Styles Ltd, 52 Grosoenor Gardens, London SWIW OAU.

Please indicate the name/s of any companies to whom you do not wish your application to be forwarded.

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Our client — the substantial North American commodity trading arm of a major European bank — is opening a subsidiary company in London to develop new business in the UK futures market.

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One of the key personnel will be the Head of Operations. With a brief to establish the operational procedures and supervise the ongoing one or the key personnel will be the need of operations. With a one to establish the operational procedures and supervise the origining maintenance of the accounting and control functions, the appointed candidate will have comprehensive, up-to-date experience of commodity futures settlement and have spent at least 10 years in the Operations area of a financial institution active in trading. There will also be substantial flaison with the trading team and responsibility for structuring the settlements systems.

The remuneration package, including banking benefits, will reflect the importance of this role. Interested candidates should contact Sarah-Jane Wittridge on: 01-606 1706, or send a detailed cv to the address below

- all enquiries will be treated in the strictest confidence.

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The principal business of James Smith Estates PLC is investment in commercial, residential and industrial property in London and the South East of England. Full particulars of the company are available in the Extel Unlisted Securities Market Service and copies may be obtained during normal business hours on any weekday (Saturdays and public holidays excepted) up to and including 21st June, 1989 from

No. 1 London Bridge, London, SE19QU

Citicorp Scrimgeour Vickers Limited, P.O. Box 199, Cottons Centre. Hays Lane, London, SE12QT

7th June, 1989

Shepherd Little & Associates Ltd Banking Recruitment Consultants

INTERNAL AUDIT MANAGER — BANKING CITY CIRCA £35,000 + CAR + BANKING BENEFITS PACKAGE

Our client is the London branch of an internationally respected continental bank.

The London branch is well established employing approximately 250 people providing a complete range of banking and related financial services utilising state of the art computer based systems.

The audit function is currently undertaken by the Head Office in Europe and it has now been agreed to establish a U.K. audit function for which a Manager is now sought.

Reporting to the Sector head in Europe and the U.K. Branch Manager the successful candidate will be responsible for implementing the audit function. He or she will ensure that effective financial and management controls are developed and maintained, and will review systems and procedures for all branch operations. Staff will be recruited as necessary and the successful candidate will be required to coordinate audit programmes with those from Head Office and with the external auditors.

Applicants should be qualified Charlered Accountants, ideally graduate with post qualifying experience in the financial services sector, with experience of EDP audit. You should have good communication skills coupled with a mature outlook and the ability to maintain complete Independence.

This new and important role within the bank offers an outstanding and challenging opportunity for a conscientious and enthusiastic candidate to develop a first class career in banking.

Please contact Brenda Shepherd.

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Good experience in sales of U.K. Convertibles, with a U.K. client base, Good knowledge of European and U.S. Convertibles would be an advantage. Various houses are

looking, Please call Richard Ward. EUROPEAN EQUITY SALES

Good experience and a good track record required for various houses. An existing European client base and fluency in a European language would be an advantage. Please call

FIXED INCOME SALES

Several houses require experienced sales people to sell multi-currency Bonds to U.K. dients, excellent packages for the right candidate. Please call Sue Stevens.

FUNDING TRADER A Major U.S. House is currently looking for a trader who is willing to diversity. Must have experience in cash markets and be a team player. Salary commensurate with experience. Please ring Stuart Norbury.

JAPANESE DERIVATIVE SALES

Experienced Sales people with extensive knowledge of Japanese. Equity related instruments sought by several houses European and U.K. client bases preferable. For details please ring Stuart Norbury.

IRPIT SWAPS

Major investment house seeks an experienced person with interest rate protection instruments. A graduate preferred, The company offers an attractive package and opportunity for the right person. In strict confidence quote reference

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Quality house requires a Swiss or Swedish National with a minimum of 2 years experience. Candidate must have multicurrency products knowledge and a good client base. Highly competitive salaries available. Please call Julie Shelley.

JAPANESE EQUITIES SALES

An expanding Japanese Securities house are looking for an experienced salesman to be deputy Head of Sales. A minimum of 2 years experience is required. A graduate is preferable. The company offer an excellent career development, Please call lulie Shelley.

BUNDS TRADER : Bunds Trader required by top Investment Bank. Must have experience of running own book. Excellent package including a car, mortgage subsidy etc. please quote ref. DF/511.

CAMBRIDGE APPOINTMENTS,

232 Shoreditch High Street, London El 6PJ. Fax No. 377 0887

Mobile telephones

Grasping the opportunity of a liberalised market

Terry Dodsworth describes the strategy that has made Technophone a high flyer

he extraordinary growth of the UK mobile phone business has produced a clutch of millionaire salesmen. But so far this new electronics-based industry has created only one substantial home-grown phone manufacturing entrepreneur -Nils Martensson, an irrepressible engineer-cum-globetrotting salesman who founded the Technophone group just five

Martensson, 51, qualifies as home-grown by choice rather than birth. A Swede who talks volubly in impeccable English. he first worked on mobile phone telephony at Ericsson, the Swedish telecommunications group, before moving briefly to Plessey in the UK and then setting up his first independent company in Britain and France.

He is an archetypal self-made man – restless, brimming with enthusiasm, and constantly throwing off ideas on both engineering and marketing strategy.
"He wants to be involved all

the time," say his associates. "He claims to go on holiday occasionally, but he usually seems to sit in his flat in Florida and keep an eye on the

Martensson decided to move to the UK to establish Technophone, he says, because he respected British engineers and was a devotee of the Thatcherite approach to busi-ness. Liberalisation of the UK telecommunications market and the launch of two competing mobile phone service groups provided the opportunity for a new start-up com-pany. "We needed an open market, an infrastructure of suppliers, and plenty of skilled, experienced engineers," he says. "Most of all we needed inventiveness - and UK soft-ware engineers are the best in

Technophone's growth since remarkable as the mobile phone industry itself. The company had an agonisingly slow birth, as Martensson scoured the City for virtually a year in

search of finance. But once he had found backing - a venture fund put up £3.5m, and the Department of Trade and Industry lobbed in a further £1.5m by way of a support for innovation grant - the com-

pany has scarcely looked back. From sales of £500,000 in the year to March 1985, the group had jumped to almost £27m in 1988 and about £50m in the year just completed. After running up losses in the first two years of operation - these amounted to £2.3m in 1986 -Technophone has swung into Technophone has swung into profits and made approximately £5m pre-tax last year. Martensson has started to export as rapidly as possible, sending 70 per cent of production to markets in Continental Europe, North America and the Far East. He is currently bringing a new plant on stream bringing a new plant on stream in Hong Kong.
To achieve this rate of

growth, Martensson has had to surmount the problems of an inexperienced, start-up company in a high technology industry populated by several large and well-financed groups. All the big players in the industry – Motorola in the US, Nokia of Finland and NEC and Panasonic of Japan - are divi-sions of broadly-based groups with large research budgets and extensive international distribution networks.

Martensson's strategy for challenging these competitors has hinged on a two-phase marketing programme.

In the first phase, which has occupied the initial five years, he has set out to establish an international position in the niche area of portable phones. Portables, as the name implies, are made to be carried around rather than staying fixed in the car. They are more sophisticated than fixed, in-car prod-ucts because they use clever software and advanced chip technology to economise on battery power - and as a result of this complexity, they

command a premium price. Martensson's aim in going for the portable niche was four-fold. First, he was convinced that Technophone's advanced design technology for integrated circuits, which form the heart of mobile phones, would give it an early lead in this part of the market. Second, he thought it would be an easier market to protect than the higher volume sector

of fixed car phones. This has so far proved true; it is estimated in the industry that of the 45 or so worldwide manufacturers of car phones, only 12 make por-tables, and only a handful of those companies are strong internationally. Third, he bargained on the special qualities of the product to generate both cash and cus-tomer interest for the drive

One breakthrough was a distri-bution deal with Alcatel, the French telecommunications group, which has also taken Technophone into West Ger-Fourth, he believed that it nologically from the produc-tion of portables to fixed car

into international markets.

phones than the other way In the longer term, however, Martensson believed that he could not survive solely as a niche producer of portables. From the outset, he says, he has been conscious of the need to expand to a size where he would be able to compete on equal terms with the larger companies in the industry. This has meant triggering the second phase of Technophone's development - a move into the mass market. "We have designed our phones for a con-sumer, large-volume market," says Martensson. "We didn't see them as mysterious, high-tech equipment, to be made only in small numbers. This is a mass production item, and in the longer term a large proportion of the population in every country will have one." Pursuing this mass market, however, means a shift in Techno-phone's strategy. The largest volume of mobile phone sales lies in fixed in-car handsets, which is precisely the area the company has avoided up to now. Hence the move to

to make cheaper standard car phones aimed at the non-porta-ble market. The drive into this new area of production under-lines the knife-edged econom-ics of consumer electronic markets, where success depends perpetually on the ability to adapt. To stay abreast of the technology, for example, Technophone is devoting about 20 per cent of its annual turnover to research and development, as against 8 per cent or so in the telecommunications industry as a whole. About 120 of its try as a whole. About 120 of its 500-strong workforce are employed in engineering and design. Part of this expenditure is caused by the plethora of national standards in the industry; but the non-stop improvements in chips and improvements in chips and battery technology also demand constant product modifications. Similar rapid devel-opments in production technology mean constant expenditure on the manufacturing lines. Technophone depreciates its machinery over a three-year period, changing its equipment to take advantage of cost reductions provided by the lat-est automated tools. This speed

of development demands that new products have to be exploited as quickly as possible to generate further investment funds. At the same time, prices are being driven down remorselessly in the familiar pattern of consumer electronics markets. The picture varies widely from country to coun-try, depending on the complex-ity of local standards and the size of the market. But in the US, for example, which accounts for about 50 per cent of worldwide sales of roughly 2m units this year, ex-factory prices of a standard car phone have plummeted from about \$1,000 three years ago to \$450 today; in the UK, average wholesale prices stand at about £450 as against £1,000 in 1966. Up to now, this price deprecia-tion has not imposed a severe squeeze on producers because sales are still expanding fast enough to keep it a sellers market. The world as a whole is short of manufacturing capacity – a situation that



should continue for some time as more and more countries bring mobile systems on stream. But Technophone is nevertheless looking to the lon-ger term future when price competition will intensify and success depend more critically on volume and manufacturing costs. On the manufacturing side, the company has already had one crisis in its early years, when its rawness and inexperience as a production unit led to serious quality problems. At that time, about 60 per cent of its phones were coming off the lines with faults of one kind or another. The search for a solution included bringing in a factory manager, Frank McGovern, who had been trained in Japanese systems at the Hitachi plant in South Wales. McGovern, an unequivocal enthusiast for Jap-anese manufacturing methods, is credited with a radical turnround on the shop floor. His managers claim that when he arrived the company's 135 production line operators were making only 600 phones a month. Today, the 160-strong workforce is turning out 5.000 units a month, with a two per cent failure rate - and output is currently being stepped up duction level, Technop

will still, however, be a min-now in world terms, with less than 3 per cent of the world market, against a level of per-haps 13 per cent at Motorola and Nokia. To grow, says McGovern, it is now crucial for the company to become one of the industry's low-cost produc ers. "From now on, this busi-ness will be all about capturing large parts of the market. If we don't position ourselves with our manufacturing technology to be a serious contender in the volume market, I don't believe we can continue to succeed." This objective explains the decision to double manufacturing capacity with the plant in Hong Kong, where Technophone is launching its Technophone is launching its new facility in collaboration with Video-Technology, a local group. "It is cheaper to manufacture in the Far East, where both labour and material costs are lower," says McGovern. There are immense opportunities there for purchasing components more cheaply, and you ponents more cheaply, and you have much greater proximity to your suppliers." Initially, the Hong Kong facility's prod-ucts will be aimed at the burgeoning US market, which is still heavily biased towards fixed car phones rather than portables. Indeed, it is fair to

say that tackling the US mass

market, the main battleground of Motorola, Nekia and the Japanese, will be a critical test for Technophone's ability to live up to its ambitious targets. But Martensson clearly believes that he has to keep running fast now while the opportunities for a small start-up company to establish a leading position in the world market still exist. Signs of the pressures imposed by the big-ger companies are all around. Both Motorola and Oki, the Japanese producer, are challenging Technophone's reputa-tion as the manufacturer of the smallest portable in the mar-ket, and the company recently raised about £11m by selling its 80 per cent stake in the UK's Excell car phone service

"We think that we shall be able to use our advanced technology to good effect over an ever increasing volume of output and range of products," says Martensson. "In effect, we should be able to move into the car mobile market with very much less development effort than for our portable products because we have done so much of the design work already. This should all help us to our target: to be one of the five leading manufacturers in the world in all types of mobile

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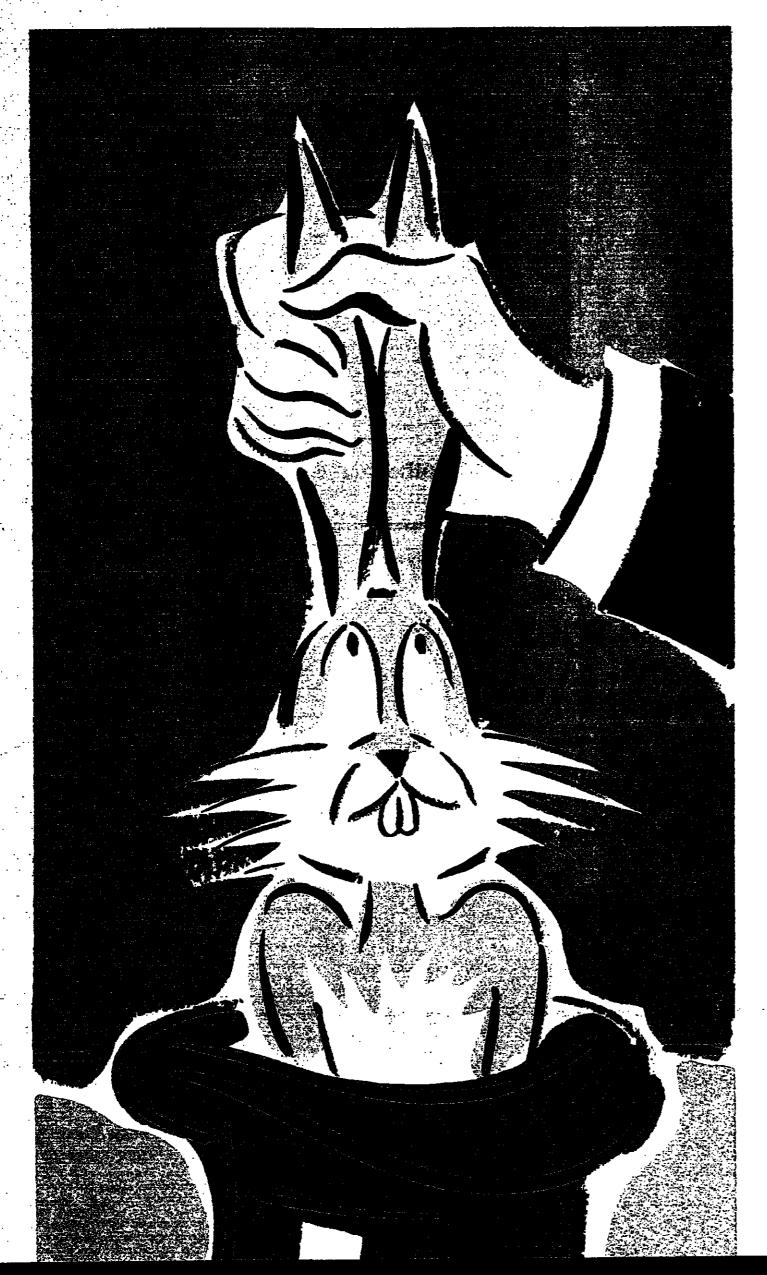
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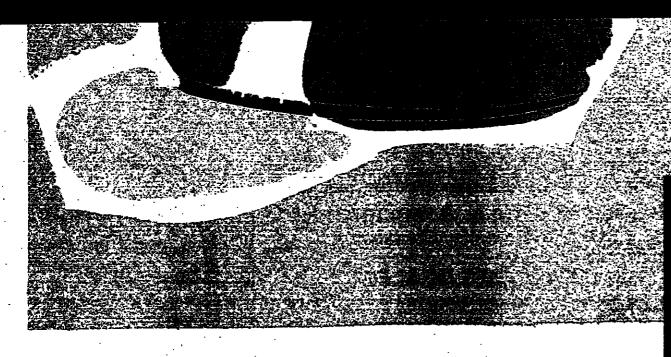
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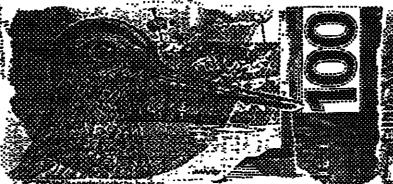
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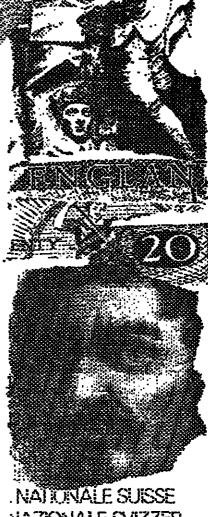
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The salary and benefits package is excellent and includes a highly competitive salary, subsidised house purchase facilities, free BUPA medical cover, and non-contributory pension. Relocation assistance will also be given where necessary.

Please send a full CV, quoting ref. IP/FT to: John Renz, Recruitment Manager, Standard Life Assurance Company, 3 George Street, Edinburgh EH2 2XZ.

Standard Life

We're better off together

CORPORATE FINANCE EXECUTIVE

Wallace, Smith is a specialist merchant bank, based in London and with a number of overseas subsidiaries in Europe and North America. The strongly analytical nature of our firm is reinforced through our strategic consulting function and market making operations. The Corporate Finance department assists clients in adding long term economic value to their businesses either in a stand alone capacity or as a complementary service flowing from a thorough strategic review.

To meet a growing demand, we wish to recruit an experienced corporate finance executive to join the existing team. This new colleague will make an immediate and creative contribution to a range of complex assignments which will be generalist in nature and in all likelihood international in scope.

A graduate, probably in your late twenties, you are likely to have achieved a professional or post-graduate business qualification such as an MBA. You will have acquired about five years' relevant experience within an established institution. This experience will have included some or all of the following areas: project finance; mergers and acquisitions; private and public placements of debt instruments and equities. Ideally you will be fluent in one or more major European languages in addition to English.

In return we offer a first class salary, attractive benefits and excellent career prospects. The firm's commitment to the market has been demonstrated by a fourfold increase in headcount, with parallel growth in clientele, in

If you are interested in joining us please send your curriculum vitae in confidence to George Romanowski, Assistant Director, Human Resources, Wallace, Smith Trust Co. Limited, Winchester House, 77 London Wall,

WALLACE, SMITH TRUST CO. LIMITED

The Directors of Cairn Energy PLC announce the following appointments to the Board:

Mr David Curry has been appointed to the Board as Director with responsibility for US operations. He has also been appointed Chairman of Cairn Energy (USA) Inc. Prior to joining Cairn in 1986, he worked for Britoil PLC.

Mr Philip Tracy has been appointed to the Board as Director with responsibility for UK operations. He began his career in the oil and gas industry in 1971 and, prior to joining Cairn as Operations Manager in 1988, he was a senior reservoir engineer with BP PLC.

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(Corporate/Private Banking) with proven management track record is socking new challenges in UK. Preferably London. Would favour middle size Unit institution where significant degree of autonomy offered.

International Executive

seeks N.Y./London assignment, M.B.A. BSc (Eng) Aged 32 years. Experience in imanceial and commercial management,

corporate and treasury finance with exposure to M & A. Accommodation in N.Y. and

Write Box A1246, Financial Times, One Southwark Bridge, London SE1 9HL

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Equities Research/Sales

Our client, a leading global investment bank which is pre-eminent in the derivatives market, is looking to make two key appointments to its Equity

Derivatives Research

This position will suit a self-motivated, hardworking and numerate graduate with between 1 and 2 years' experience in the UK equity market (either research or sales), who now wishes to diversify into the derivatives market.

Prior experience in the futures and options markets is not essential. More important are strong communication skills (both written and spoken), as the chosen candidate will be responsible not only for producing two monthly research publications, but also for talking to clients about this research. It is anticipated that, in time, this person will transfer to a sales role within the team.

For an informal discussion please telephone or write to Neil Salt quoting Reference NAS 5160.

Index Research

This position will encompass index product research and the assimilation of a database for domestic and global indices and their derivatives. Strong statistical skills are required to understand the construction and limitations of complex concepts and instruments.

The chosen candidate will work closely with the equity trading risk management team which will require a meticulous attitude and the application of original thought. The production of material as part of the derivatives research package will also be required. The appointee will have gained at least 1 years' equity experience and must show a willingness to become closely involved with esoteric products.

For an informal discussion please telephone or write to Robert Winter quoting Reference RW 5161.

Both positions provide highly competitive salary and benefits packages, including significant bonus potential. Prospects for further career advancement within the bank are excellent.



International Search and Selection 160 New Bond Street, London W1Y 0HR Telephone: 01-409 1371

UK Investment Bank

Compliance Executives

Our client is a major force in international banking, operating in all leading financial markets throughout the world.

An excellent opportunity currently exists for two individuals to join its Compliance department. The department maintains a high profile throughout the organisation and it is vital that staff recruited are of the highest calibre.

Acting as No 2 to an Assistant Director, responsible for either a TSA or IMRO member company within the group, the Executive's role will be to maintain close liaison with business areas in interpreting regulatory requirements and conducting surveillance

Ideally, candidates will be: * Graduates, possibly with a professional c.£25,000 + Benefits

qualification and/or 12 months' experience within a City Compliance department or Regulatory body, covering TSA/IMRO

- * with excellent communication skills, both written
- * and the ability to deal with Senior staff regarding sensitive and highly confidential matters.

The prospects for the successful candidates are excellent as is the remuneration package which includes mortgage subsidy and other banking benefit

If you are interested in the positions described, please call Karin Clarke on 01-831 2000 or write to her with CV at Michael Page City, 39-41 Parker Street, London WC2B 5LH.

Michael Page City International Recruitment Consultants London Paris Amsterdam Brussels Sydney

Corporate Finance Executive -Spain & Germany

N M Rothschild & Sons Limited is a leading international merchant bank with an expanding corporate finance busine

The Bank is to appoint an additional young executive to the Corporate Finance Spanish Group. The individual appointed will have a background of an MBA in European Corporate Studies and an awareness of European accounting conventions. A high level of written and spoken fluency will be required in Spanish, German and English and additional European languages would be an advantage.

The successful applicant will spend a considerable part of the time overseas and be involved in European cross-border transactions for the Group's clients. It is likely that marketing will form a significant element of the post's duties. We offer a competitive remuneration package with normal banking fringe benefits and the prospect of career development for successful performance.

Please send full curriculum vitae, in strict confidence to: Andrew S May, Assistant Director - Personnel, N M Rothschild & Sons Limited, New Court, St Swithin's Lane,

N M Rothschild & Sons Limited



USA

Boston

Product Manager - Portfolio Management Systems

c. £70.000 + full relocation

We are a major financial services/information

provider operating internationally. We already have extensive experience with investment management products, but feel there is now superb sales potential for a sophisticated international, multi-currency portfolio management product - probably PC-networked or VAX based.

The Product Manager will specify, control development and help launch the system - a challenging role requiring business knowledge, marketing potential and ideally systems skills. Applicants should have 5+ years international investment experience (accounting & performance) and be able to 'sell' ideas to our senior management - and our sales consultants.

Your experience may have been gained with a:-Bank, investment Manager, Unit Trust etc. Software consultancy/Package vendor IT user, computer manufacturer etc. Knowledge of competing Asset Management packages would be useful.

Based in the attractive, culturally rich New England area, the project itself will last for around 3 years. The option is yours to treat it as a contract or as the beginning of a senior management career with one of IT's major players.

For more information or an informal discussion, please call our Consultant, Bill Theobald on 01-489 0165 or 034 284 3278 evenings.



Rathbone

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AN OUTSTANDING OPPORTUNITY FOR AMBITIOUS, DYNAMIC INDIVIDUALS

Our client is a small, profitable and well-respected specialist financial services company. They are looking to expand their fee-income business base and would be interested to hear from individuals/groups of individuals with in-depth experience and extensive contacts in any corporate finance activity particularly, but

MERGERS & ACQUISITIONS • PRIVATE PLACEMENTS ASSET-BASED FINANCE • OTHER NICHE AREAS

Candidates should possess drive and initiative and be capable of operating autonomously from start-up.

You will be working in a young, entrepreneurial environment where scope will be limited only by your own horizons.

This is a substantial career opportunity and the remuneration package offered will reflect the importance the company attaches to this phase of their expansion. In the first instance please telephone 01-439 1188 and speak to Sean Lord or, alternatively, write to:-

The Rathbone Consultancy

Premier House, 77 Oxford St. London W/IR 188, England: Tet; 439 1188/287 5704 Fac; 494 0539

UK CORPORATE MARKETING

A prime name in international banking offering a full range of commercial banking services, currently seeks an experienced Corporate Banker in the age range 28-35 to join the existing from Merketing for mid-large corporates, the duties also involve credit/

SPOT FX DEALERS

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A highly regarded European Bank, in the process of expanding its trading capabilities, regulates two dealers, one at a senior level, to join the team and or currencies. A highly competitive salary its package will be offered to the chosen

Salary: to 250,000 ontact: Gordon Brown

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The specialist subsidiary of an international banking group have identified opportunities within the organisation; first, for marketing Euro-syndicated loans and, secondly, marketing international loan finance, emphasising Eurobonds. Both positions represent

A first rate trading bank has an opening within its successful Corporate FX Seles Team for an addi-

successful compress to the primarily involved in FX Sales, including Options and some Money Market. This represents a rare opportunity to join this well-regarded bank in a significant assignment.

Sales: \$235,000 to \$45,000 Contact: Gordon Brown

CORPORATE FX SALES

Gordon Brown



Corporate Finance Opportunity

Singer & Priedlander Limited, an independent merchant bank, seeks a bright, young(ish) individual, interested in both the creative and the technical aspects of corporate finance, to join its expanding department at whatever level may prove appropriate.

Our clients are mainly the medium to larger private companies and the smaller public companies and, whilst our work is predominantly in mergers and acquisitions, we advise clients on management buy-ins and -outs, on flotations and on a raft of other money raising activities. We work in small teams which come together for a specific transaction and stay together for an individual client.

We would prefer to be joined by someone with corporate finance experience but we would be pleased to talk to lawyers or accountants wanting to spread their wings. We would also look kindly on birds of a different feather if they display enthusiasm, determination and intellectual sparkle.

If you are interested in joining us, please write to Panton Corbett Singer & Friedlander Limited, 21 New Street, Bishopsgate, London EC2M 4HR.

Singer & Friedlander Limited is a member of The Securities Association

EXPERIENCED FOREIGN EXCHANGE DEALERS

Currently required in international banks: Forward - all major currencies Spot - cable and cross currencies. Salaries: &Neg

ACCOUNT OFFICERS FOR WEST END BRANCHES

Our client, a well respected international bank is seeking to appoint lending officers with particular experience in offering medium term facilities to UK corporates and to engage in private banking for customers in the Greater London area. Salaries: c£25,000

JUNIOR CORPORATE LENDING OFFICER

A University degree and 2-3 years' banking experience, preferably in a lending environment, are required to join a European bank's London branch in a progressive career position. Aged mid 20's, salary: £20-25,000

GRADUATE ACCOUNTANTS

We are seeking qualified graduate accountants for a number of clients in both commercial and investment banks, one particular category being oversess branches being opened in London. Salaries: £20-25,000

Please write or speak to Shella Jones

OLD BROAD STREET BUREAU LTD STAFF CONSULTANTS 65 London Wall, Landon EC2M 5TU

International Merchant Bank

PROJECT FINANCE - MINING SPECIALIST

The Mining and Natural Resource Lending group of a leading merchant bank is to appoint an additional executive to its existing team. The Bank is already a major participant in natural resource activities and is seeking to expand its already significant role.

The executive will undertake the detailed evaluation of projects, the negotiation of facilities at the highest level and the production of lending reports. A working knowledge of computer-based cash flow analysis is

Candidates must possess at least 2 to 4 years project finance experience, probably gained as a project lending officer in a major bank...

The post will offer a salary of between £25,000 and £35,000 together with a profit-sharing scheme and usual banking benefits. There will be significant opportunity for career development in an organisation with wide and influential contacts.

Please send your full cy to Media System, Garden House, Cloisters Business Centre, 8 Battersea Park Road, London SW8 4BG, quoting ref: 1957 on the envelope. Your application will be forwarded directly to our client, unless marked "security check" and noting separately companies to which it should not be sent.



MEDIA SYSTEM

Airdrie Savings Bank

General Manager (Scotland) £35-40k + car

Airdrie Savings Bank is the UK's only independent savings bank, with: seven branches and deposits of over £25m. Whitst providing a keenly competitive service, the Bank also has a long tradition of playing a major part in the local community. Reporting to the Trustees, the General Manager is responsible for the overall management of the Bank, including its investment and property portfolios. Candidates should ideally be fully qualified bankers (AIB), of graduate calibre, with experience in both personal and commercial banking, probably gained from either a bank or a building society. Man-management and communication skills are essential as is the ability to "be" Airdrie Savings Bank to the community. Commercial acumen, ability to assess and manage risk, and the drive to succeed are also prerequisites for this challenging yet rewarding role. Please reply, in strictest confidence, to Peg Eva, lection Thomson Ltd., 85/87 Jermyn Street,

London SWIY 6JD or 14 Sandyford Place, Glasgow G3 7NB.

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Of well-known PLC, 48, graduate, retired 1987 and now bored seeks part-time

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London and Glasgow



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An experienced Marketing professional with a sound track record with medium to large UK Corporates and excellent credit training is sought by this International Bank. The ideal candidate will be 30-40 years old with a marketing

From £25,090 UK EQUITY SALES

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Tals Leading International Securities House is presently expanding its retail base and initially requires a Salesman to cover Germany. An ideal position enclidate with fluent German and either broad Bond Sales or at least 6 months Warrant Sales experience. \$5/6081. MULTICURRENCY BOND SALES

& Highly neg.

A rember of Leading Banks are expanding their European retail base to Germany, France and Scandinavia. Ambitious and determined candidates with at least 1 year's experience and fluency in at least one of the above languages will be highly rewarded. SS-5062.

RECRUPTMENT CONSULTANTS & High Pkg. ontinued expansion we are actively seeking experienced recruit onals to augment our team in any of the following areas bar ary, securities, or related fields. Please call Sharon Brown for an initial

5 London Wall Buildings Finsbury Circus, London EC2M SNT Tel: 01-628 1727 Fax: 01-628 1392

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applicants, and direct them to alternative Hants RG21 LIB, or telephone Basingstoke (0258)

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The Fund has an average summel spend of £24,355, depending on qualifications and

you will have a key role in the protection of guide and motivate the staff.

around £13m per year. Working closely with experience.

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the Fund's Director, your main priority will be

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The National Haritage Memorial Fund was You must have a track record of creative established in 1980 as a central source of finan-flair and sound business skills at senior man-

David Tweet at PO Roy 442 32 St. Mary-at-Hill, London EC3P 3AJ

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Our client is a leading and dynamic international bank with an enviable reputation in the Foreign Exchange market. It now seeks two Spot traders who are likely to have gained experience of trading \$/DM, \$/Swiss or Sterling crosses in an aggressive dealing room environment, both jobbing and taking longer term strategic positions.

The prospects and rewards on offer are intended to attract dealers of the highest calibre with a demonstrable and exemplary trading record.

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One of the world's largest banks requires a dealer with a good proven track record to trade the Sterling cash book. The successful candidate is likely to be in his/her late 20's and should display the flair required to contribute to the Bank's continued growth in London.

Interested applicants should apply by telephone or in writing to:

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BOWL COURT, 231 SHOREDITCH HIGH STREET, LONDON E1 6PJ. TEL: 01-247 7632. FAX: 01-247 1411

c.£27,500 + benefits

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One Southwark Bridge, London SEI 9HL

SENIOR SYSTEMS ANALYST/ PROGRAMMER to £25,000 + Benefits

We are a member of a global insurance and

financial services corporation and are looking for a Senior Systems Analyst/Programmer with a minimum of 5 years systems experience to develop and implement enhancements to our multi-site Portfolio Management System. Excellent communication skills required as the role will involve extensive liaising with both in-house customers and external software consultants. Previous experience in financial or investment systems work preferred, but not essential.

Benefits include mortgage subsidy, health cover, non contrib. Pension, etc.

Applications to Miss. S.M. Lapsley, Personnel Manager, CIGNA International Investment Advisors, 16 Finsbury Circus, **London EC2M 7AX**

Due to growth of portfolios under status. The successful candidate will be capable of dealing with clients on an informed and confident basis whilst also undertaking routine chores. Essential a sense of humour. Salary+ according to experience. CV. to:-

Miss T Beardwell, Grenville Alexander Rawlings Ltd, Vernon House, Sicilian Avenue, London WC1A 2QH

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For further details and an application form

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management we wish to recruit an assistant with Registered Representative or equivalent qualifications are reliability, adaptability and

On June 21st The Financial Times will publish the list of newly qualified chartered and incorporated engineers

For details and advertising alongside this feature please call Patrick Williams on 01-837 3351

You should have over 3 years' experience in a large financial institution and possess the drive and enthusiasm to meet the challenges of an expanding investment. Department. You should also be prepared to complete the SIA examinations or should have already obtained, or be willing to study for, an MBA.

Central London

United Friendly Insurance

Investment Analyst

During a period of exciting development and change within United Friendly, we are

During a period or exceed development and change within united Friendly, we are seeking an Analyst to join our investment Team, handling funds in excess of £1½ billion. Responsibilities will include summarising and interpreting financial and qualitative information on 50 to 60 UK and overseas companies in a number of sectors. You will also have a supporting portfolio management role, and play a leading part in improving the information and expertise relating to equity

Please send cv, in confidence, indicating current salary and, if

possible, a daytime telephone number, to indi Seehra, Personnei Officer, United Friendly insurance pic, 42 Southwark Bridge Road,

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Portfolio Manager

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Merchant Navy Investment Management is a leading independent investment management company with over £2 billion of assets under management, mainly for pension fund and investment trust clients.

An opportunity has arisen for a portfolio manager to work with our team running CDFC Trust PLC, an investment trust with gross assets of £110 million. CDFC was launched in September 1987 and has a portfolio of quoted and unquoted investments in companies operating mainly outside the U.K. and Europe. Following a successful acquisition last year, CDFC has substantial interests in plantation companies, as well as a portfolio of Ear Feature state. a portfolio of Far Eastern stocks.

We need a manager for the quoted investments of CDFC who can contribute to the establishment of CDFC as a leading trust specialising in development capital investments worldwide. While relevant experience in quoted investments is destrable, just as important is the commitment and ability to participate in the successful implementation of CDFC's strategic plans. We are looking for a person who enjoys the challenge of creating and implementing their own ideas and can work well with a small team of professionals.

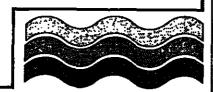
The likely candidate will probably be in their late 20's or early 30's and be able to demonstrate a record of achievement.

A competitive salary commensurate with experience and the level of this position

Please send a detailed C.V. to Tony Charlwood, Manager, CDFC Trust PLC.

Merchant Navy Investment Management Ltd. 30 Finsbury Circus. Telephone 01-588 6000

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£35,000 + Car

Deputy General Manager **Banking**

Our client is the Channel Islands operation of a major UK banking and finance Group. Jersey-based, its growth now calls for the engagement of a Deputy General Manager. The prime responsibility will be to develop the bank's sterling and foreign currency deposit base via the extension of its private banking and financial services among high net worth individuals internationally

The successful candidate will be aged mid-30's upwards and a qualified banker, preferably with Jersey residential qualifications. Experience will have developed a thorough capability in lending and bank administration, and the confidence to grow and manage a high net worth private banking operation in the Channel Islands or indeed elsewhere.

This is an important hands-on appointment, and the appointment will be expected to have the ambition, the authority, the presence, the persuasiveness and the involvement in the Islands' affairs that successful application will demand. In return, full support will be given and the benefits package will be commensurate with a post of this importance.

Letters of application, together with CV, salary progression and any other relevant data, should be sent without delay to the Managing Director,

Performance Management Limited, 8th Floor, Peter House, St. Peter's Square, Manchester M1 5BH, quoting reference

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MANAGEMENT CONSULTANTS

ASSISTANT FUND MANAGER

Attractive Salary + Car

North West

T&N plc is a billion pound turnover group with interests in automotive components, engineering and other related product

As Assistant Fund Manager, you will form part of a small team which manages the investments of the Company's pension fund, which has an asset value of around £640m.

You will be responsible for the day to day running of a substantial UK equity portfolio. In addition, you will also assist the Pensions Finance Manager in the broader aspects of investment management, including supervising administrative procedures.

We are seeking a graduate with at least 4 years' experience of running a substantial portfolio of UK equities.

Probably from a pension fund or insurance background, you will now be looking to build on your experience, and must be capable of developing into other areas of fund management.

An attractive salary will be offered and the package includes a company car and relocation assistance where appropriate.



Please write with full CV. indicating current salary, to: Duncan Roberts, Pensions Finance Manager, T&N plc, Bowdon House, Ashburton Road West, Trafford Park, Manchester M17 1RA

INTERNATIONAL APPOINTMENTS



THE COMMISSION OF THE EUROPEAN COMMUNITIES

DIRECTOR

for DG XVI-E (grade A/2) (m/n)

to work on temporary contract in its Directorate-General for Regional Policy as head of the Regional Policies Directorate.

The successful candidate will be responsible, under the authority of the Director-General, for coordinating the activities of the following three administrative units:

- "Financial Management, Monitoring and expost Evaluation";

- "Information; Relations with the European Parliament and other Institutions";

- "Organization of Work and Procedures; and Computerization and Training".

Candidates must:

□ be nationals of one of the Member States of the Community; □ have completed a course of university education and obtained a degree in economics; □ have at least fifteen years experience in finance and management since leaving university; experience of communication and data-processing techniques is also required; □ have the ability to get on with people and to direct and coordinate large teams; a knowledge of the problems of regional development and conversion within the Community would be an advantage; □ have a thorough knowledge of one Community language and a stisfactory knowledge of a second; □ preferably be less than 55 years of age. Officials of the institutions of the European Communities are not eligible. A contract will be awarded for a minimum of three years and a maximum of five, it will not be

The candidates considered best qualified for the post will be called for an interview, at which details concerning salary and the precise nature of their duties will be provided.

If you are interested, please send a detailed curriculum vitae (preferably typed) and supporting documents to the following address: COMMISSION OF THE EUROPEAN COMMUNITIES, Recruitment Division, rue de la Loi 200, B-1049 BRUSSELS to be postmarked not later than 16-VI 1989, Please Quote reference 77/89 (both on your application and on the envelope).

Financial Controller

Banking

To £35.000 + Car + Benefits

Our client is a very profitable expanding, entrepreneurial Merchant Bank, with offices in London and Bristol. This autonomous banking subsidiary of a large, diversified group is primarily involved in portfolio management and property finance.

The Bank seeks to recruit a Financial Controller to head up the accounting function. Reporting to the Managing Director, and with responsibility for five staff, they will wholly manage the computer systems, produce management information, Bank of England returns and will sit on the Bank's Management Committee.

West London

Applicants should be qualified accountants (ACA, ACCA) with at least 3 years' post-qualification experience. Ideally candidates should have strong technical skills, a sound understanding of computer systems, and an appreciation of regulatory compliance. The position offers an excellent opportunity for the further responsibility and promotion to the right candidate.

A salary in the region of £30-35,000 is offered together with car and benefits. Please write enclosing full career details, in confidence, quoting ref: SHA 1311 to Sean Connolly at the address below.

Stoy Hayward Associates MANAGEMENT CONSULTANTS, EXECUTIVE SELECTION DIVISION, 8 BAKER STREET, LONDON W1M 1DA

A member of Horwath & Horwath International

LEGAL NOTICES

The Coine Valley Water Compa

NOTICE IS HEREBY GIVEN that the One Hun-dred and Sixty-fourth Ordinary General Meeting of the Seckholders of the Company will be held in the Assembly and Amerillaes Centre at the Principal Office of the Company, Blackwell House, Aldenham Road, Watford on Thursday, 28th June, 1969 at 12.30 p.m. for the following purposes:

- To receive and adopt the Report of the Directors and the Statement of Accounts for the fifteen months ended 31st March,
 To receive and the statement of the statement o
- 1989.

 2. To confirm and declare dividends.

 3. To re-elect Skr John Page a director of the
- Company.

 4. To re-elect Mr. Michael Stowari Rosa Col-line a director of the Company.

 5. To authorise an increase, with effect from tex April 1989, in the apprepaid less of the
- \$50,000 per amum. 6. To appoint auditors in accordance will Section 334 of the Companies Act 1985.
- Section 334 of the Companies Act 1985.
 7. To subjecte the directors to fix the remu-neration of the auditors.
 8. To transact the other ordinary business of

the Complany.

Dated this 7th day of June 1989.

By Order of the Board

J.A. FENRELL

Sacretary

Nackwell House

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TELEVISION

Summer viewing isn't easy

ven if you were locked in a win-dowless underground dungeon you would still have a pretty accurate idea of the passing seasons, so long as your captors provided a television. The mixture of sport, repeats and old movies which is now beginning to dominate the schedules can mean only one thing; summer is coming. The result is that you have to look considerably harder for the worthwhile programmes than you did during the long winter evenings. Yet, as these notes from a critical diary show, in 1989 there is so much on television that it is a rare day when there is literally nothing worth watching.

One of those rare days: a bank holiday, so those who have seen El Cid, How The West Was Won, and Superman II are left with a sim choice. Since Dream Baby was written by David Kane, who gave us Shadow On The Earth, it sounds promis-Shadow On The Earth, it sounds promising. However, it does not start until 9.45. Switch on Channel 4 at 9.00 to sample The Sex Mission which is said to be a sort of Polish "Carry On" and discover that the story of a future society with no men is, indeed, almost as silly as the popular British farces. But it has a bit of visual style so I stay with it . . . and discover at 11.15 that instead of taping the BBC2 drama I have recorded Miami Vice and lots of golf from BBC1. Do drama critics often find themselves in the wrong theatres? Tuesday May 30

Tuesday May 30
Prior to a summer repeat of the entire series of Cagney And Lacey, BBC1 re-runs the 95-minute special with which the whole thing began. The five-minute precredit sequence is splendid: fast, funny and tense. Then it slows to walking pace, drops to a stroll, and ends up feeling as though the producers had more time than they knew how to fill. Still, it proves one thing: if only they had managed to keep Loretta Swit playing Cagney, they might Loretta Swit playing Cagney, they might have had something very special on their hands instead of just another cop series.

In the first of FTV's new trio of Hypotheticals.

iculs on race, the central ingredient which has proved so wonderfully effective in the past – fiction – is abandoned, and we are treated instead to another round-table dis-cussion about Salman Rushdie and his book. This seems an odd mistake, given the programme's title. For instance, it means that the businessman who trades with Iran cannot play "Let's pretend" and thereby indicate the truth, but has to behave like a politician and skirt the issue. Wednesday May 31

BBC2's history series Timewatch continues to offer excellent and diverse material: today a sketch of a 15th century gentle-woman, obtained from letters and her will; and a sickening account of murderous anti-Semitism in Poland in 1946, of all dates. But what a pity that Peter France is no longer the presenter. His calm presence and splendid voice projected the pro-

gramme wonderfully well.

The popular British (or is it English?)
pose of contempt for all American television continues to baffle me. I think the two best sitcoms running at present are Bilko and M.A.S.H. both repeats, both

Fully spelled out, this is the Ensemble of Soloists of the

the first time, they can pride themselves on a longish his-

tory of service to the cause of

new Soviet music - never

really a "samizdat" affair:

Soviet bureaucrats were

Hungarians to realise that

music makes a harmless, attractive export. At home in

a close analogue to the London

Sinfonietta, and many compos-

ers have worked with it so closely that they've been reluc-tant (it seems) to send their music abroad without its

Thus the concerts on Sunday and Monday boasted seasoned

performances of a fairly exotic,

unfamiliar repertoire. Amid a whole range of disparate indi-

vidual styles, one Western fea-

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merely slower than Poles or

screened by BBC2, and of course both American. Tonight's M.A.S.H episode which contains two good plot lines (using placebo effect for lack of morphine, and the antics of a recent recruit who out-does Klinger in feigning madness to achieve discharge) are decorated with wonderful dialogue. "I loathe you, Pierce" snarls Charles. "I call your loathe and raise you two despises" sneers Pierce.
Thursday June 1

The conventional social documentary, overshadowed in recent years by trendy fly-on-the-wall material, is back with a bang Jonathan Darby's programme "Four Days In Summer" in BBC2's Under The Sun series gives an amazingly clear account of the way the Sienese organise their notorious horse race, the Palio. The amazement is caused by Darby's success in using a camera and microphone, the most unwieldy of journalistic tools, to investigate the jealousy, chicanery and intense chanvinism which sustain the city's district groupings or "contradas." Producing a documentary series such as

The only difference between the Chinese government's action this and those of Hitler, Pol Pot and Stalin is that the genocide was committed in front of the world's TV cameras

Channel 4's *Propaganda*, with virtually no commentary or spoken explanation is rather like writing a symphony without using the string section: perfectly possible but affected and destructively limiting. Also, in this case, rather suspect: If the makers know where they stand on Nazi and Soviet propaganda why are they staying so quiet?

Priday June 2

The first of the three parts in BBC2's drama series Vote For Them is slow to drama series Vote for Them 1s slow to start. If meanders through some expensive looking desert location shots, hints darkly at political intrigue among the Allied forces in North Africa in 1943 in a jerkly amateurish way, and only towards the end reaches the seeming focus of the drama: a mock parliament in which the troops join rather as Cromwell's soldiers did, presumably, in the Putney Debates. Unfortunately ably, in the Putney Debates. Unfortunately the quality of argument in Cairo seems to have been way below that in Putney. . The only reason one can guess why this rambling and boring material was not promptly passed back to an expert film

of the writers was David Edgar (the other being Neil Grant) whose name, for some reason, seems to be held in awe by those who believe that the subsidised theatre is the be all and end all of contemporary drama. Some in that little band appear to think that drama is at its most clever when most obscure, but out here in the real world the viewing millions prefer their dramatists to be able to express themselves clearly. Of course they have to be clear in their own minds before they

Sunday June 4 An astounding day for news: the slaugh-ter in Peking (known to ITN as "Beijing;" when do they switch to Mokba and Wien?); the death of Ayatollah Khomeini; and the the death of Ayatolian Khomeini; and the trans-Siberia gas/rail explosion. Although the BBC scarcely surpasses itself, it does greatly expand its news bulletins and slots in an extra edition of Newsright presented by the admirable Gavin Esler. ITV again present the disadmirable flaving Esler. ITV again proves the disadvantage of being a 16-com-pany federation with all the consequent difficulties over clearing schedules and mounting instant current affairs pro-

Pol Pot, Hitler and Stalin were responsi Pol Pot, Hitler and Stalin were responsible for massacring greater numbers of their own people than Deng Xiaoping. History may show that the crucial difference is that the first three committed genocide in secret whereas the Chinese, this week, have been slanghtering their own citizens in front of the world's television cameras. News apart, it is a packed and fascinating night on the box. Second Sight (BBC2 again) is the first in a series of conventional documentaries revisiting women whose lives were first seen on teleen whose lives were first seen on television in the 1960s. Jonathan Stedall's update on Anne-Marie seems at first to be telling us irritatingly little about the girl who had been taken into care by nuns. Then slowly the saga of men and bables, and a second generation of care orders, all comes out. Yet it ends with a clear hint that, with a new man called Steve, the cycle has been broken. A simple, strong

So, too, is Channel 4's The Last Navigator which is also beautiful, inspiring and enlightening. Caroline Islander Mau Piailing proves to American Stephen Thomas that by knowing the stars, swell, and cloud he can navigate his giant outrigger cance across 500 miles of the Pacific from one small island to another with pinpoint

accuracy.
It is the Pacific's evening. Part 1 of The
Rainbow Warrior Conspiracy on BBC2 impresses and entertains by revaling to millions the perfidy of governments, in this case France's. The sinking of the Greenpeace ship in New Zealand, according to this convincing enough account, is a cross between a James Bond and a Fred Karno plot. Add to that *The Grasscutter* on ITV, also set in New Zealand, a fast, tense and well photographed thriller, and it begins to look as though we can add talevi-sion programmes to the growing list of Britain's Pacific Rim imports in the 1990s.

ness. A bomage to the American George Crumb by the Azer-baidjan Faradzh Karayev evoked Crumb's fragile sound-model with a best conserve of the

Christopher Dunkley

antly.
In "Warum?" Vladimir Shoot

played more equivocally with

Romantic memories (here, of

seemed nearest to Alfred

seemed hearest to Affred Schnittke, the contemporary Russian whose work is heard most in the West. The three Schnittke pieces in these con-

certs ran from a 1964 piano concerto – serial music, but

sinewy and wryly idiosyn-cratic, forcefully delivered by

Vasily Lobanov - through "Polyphonic Tango," an angry joke at the expense of reaction-

ary Soviet critics, to his recent Aphorisms, Webern-laconic and toughly eloquent. Alexander Lazarev conducted everything

with infectious commitment.

David Murray

course, Schumann) impacted variations.



Carmen

Opera as spectacle, arena ing orchestral sound, and the opera, returns to London with congestion caused when sev-curren, courtesy of Harvey eral solo voices are combined, Goldsmith and the sponsorship of the MI Group. In his column on Monday Antony Thorncroft detailed the financial background to this week-long sea-son in the Earls Court Arena, with a production budget of in excess of £3m and a cast run-

ning into hundreds. Unlike last summer's Aida, this production by Steven Pimlott, designed by Stefanos Lazaridis, has been specifically tailored for Earls Court and to fill the vast expanses as vividly as possible. The arena is domi-nated by a bull ring, surrounded by an apron that can rise, fall and rotate; satellite stages offer spaces for visual asides. Tures separate sets of principals are required for the opera to play on successive evenings; there is a full flamenco troupe (Paco Pena's Fiesta Flamenca Company), half a dozen bemused horses, and a squadron of specially imported toreadors. There is also, though one could be for-given for forgetting sometimes, the National Philharmonic Orphesite conducted by Iso Orchestra conducted by Jacques Delacote and like the singers amplified to all parts of the house by an overhead

sound system.

The logistics of this operation are so complex one won-ders that anything remotely resembling opera can emerge at the end of it. When getting such a gargantuan chorus on and off the stage is a feat in itself niceties like the balance of music and drama tend to get squeezed to the margins, and the fact is that for much of the evening's three and a half hours any connection between what one beholds at Earls Court and what an involving performance of Carmen can offer in a purpose-built theatre or opera house is strictly tenu-

ous. The heart of problem lies not in the spectacle, nor in a pro-duction which necessarily dispatches action to every part of the massive set, but in the drastic dislocation of sound and image. I turned up at Earls Court ready to accept the necessity for discreet amplification in such a large space; but the thinness of the result-

are most disappointing. And with all of the sound channelled centrally, marrying voices to bodies is a constant chore; tracking down the source of a vocal lines might take several seconds, in that time concentration is lost and the operatic illusion diluted still further.

Finding the hard core of Car-men among the spectacle is another impossibility. There is evidence that Pimlott's struggle to fill the space while still simulating contact on an indi-vidual level between protagonists has brought some uneasy compromises - Carmen and Don Jose eyeballing each other across 30 yards of sandy wastes, Don José and Micaela singing their first-act duet while lapping the bull ring, Escamillo confronting Don José on a steel catwalk strung high above the audience. One would willingly trade Escamillo's entrance in a coach and pair for a few moments of pal-pable dramatic tension, for a reminder that the opera one is watching has the potential to ensnare its audience in a tragic emotional web.

No cast could overcome all

these obstacles. Monday's opening offered Maria Ewing in the title role, her beguiling, multi-hued portrayal pared down to a basic repertory of her colleagues she tried to make positive use of the amplification by concentrating on inflection rather than worrying about projection. Jacque Trussel's Don José lost tension in his voice by not having to press it for volume, while Alain Fondary cut a better figure when Escamillo was on foot than perched precariously in a carriage. Yoko Watanabe had realised the virtues of doing simple things well in this setting, and her Micaela made one of the most positive contributions. Delacote con ducts solidly if stolidly, obviously settling for routine effi-ciency rather than inspired communication in the circum-

Andrew Clements

June 2-8

Ariadne auf Naxos NEW THEATRS, CARDIFF

In Giles Havergal's new Strauss production for Welsh National Opera, the Composer falls to the ground in a despairing faint at the close of the Prologue. In the Opera proper, he has A Dream - indeed, this part of the work is his dream, enacted alongside Hofmannsthal's words, and in defi-ance of much that we have heard and been told earlier.

To the strains of the instrumental introduction we see Ariadne bidding her husband farewell – the dress of the pro-duction is World War 1, and it is thither he is evidently going. Immediately he has departed she receives word of his death, and falls into a mourning swoon: the arrival of Bacchus becomes her fantasy of her lost beloved, who (in the work's final moments) takes his place as a figure on a war memorial. The buffi have also, somehow, been made part of Ariadne's grief-stricken imaginings; the Composer is a spectator to all It comple silly. It is silly: a

it sounds siny. It is suny, a Bright idea not swatted at the drawing-board stage, as it should have been, but given the resources of the three com-panies who are sharing the production (the Minnesota and Vancouver companies as well as WNO). There is a degree of ingenuity about the working-out that carries its own small quota of interest; the designs by Russell Craig are likewise ingenious, the costumes hand-

But Ariodne ouf Nazos, as Strauss and Hofmannsthal finally achieved it, is one of opera's most fertile and beauti-ful disquisitions on the nature of art and the crosscutting of theatre and life. It is already a sufficiently stylized work the last thing it needs is a new layer of artifice, especially one which appears intentionally to sunder the organic connection between the work's two parts (the Prologue still being played as a backstage comedy at the house of the richest man in

The most cherishable aspect

of the whole, the interweaving of high and low operatic manners, becomes quite meaning-less - and what a tedious lot these buffi are! The final duet accrues a certain new emotional impact – it was also, on Monday, the best-sung part of the performance, and seemed at last to stir Charles Mackerras's unwontedly placid. amble-paced conducting to a more familiar mode of energy and forward momentum. (All evening the orchestral playing sounded scrawny and erratic.) In sum, though, the artistic cost of Havergal's "innovation" is high, and the gain disproportionately small. Monday's performance was put under added strain by the indisposition of Kathryn Harries, the Composer; her youthful replacement, Annemarie Sand, commands warm, full mezzo timbre, but was cruelly taxed by the higher reaches of the

vocal writing.

It was altogether an uneven cast. Edith Davis (Prima Donna/Ariadne) is, on this showing, a soprano of generous instincts but uneven vocal quality; she gives herself to the role 1,000 per cent, which in context is a bit much - the opening of the Opera becomes here a right old Greer Garson weeple. Gary Bachlund has godlike good looks and a strong, darkly baritonal tenor; he is not exactly a graceful singer but to the small number of the world's acceptable Bacchuses he makes a worthy

There is an efficient dry Zerbinetta (Constance Haumann), decently-blending voices for the male quartet and female trio (Harry Nicoll's Brighella/ Dancing Master and Eileen Hulse's Naiad particularly noteworthy) and an outstand-ingly clean, musical Harlequin sung in Tom Hammond's translation: less of a boon than it might have been, given the

Max Loppert

American Bagpipes **ROYAL COURT**

A Scottish piper enunciated his A Scottish piper enunciated his windy waffle across Sloane Square on Monday night from the outside circle balcony of the Royal Court. His unheeded droning prefaced the plight of Patrick Nauldie, the artist-criminal-hero of Jain Heggie's second major stage play, who has returned home to Glasgow after a futile career on the

pipes down South. Patrick has been away/inside for seven years. His father Willie is still pounding the beat as a police constable, calling for his tea and his wife. His sister, Sandra, has returned from married non-bliss in New Jersey to complete the family reunion and try and extricate her mother, Rena, whom Willie insists on calling "Bridget", from domestic atrophy. The secrets of Willie's career are kept in a casebook that goes missing in the first act, in the second, Patrick's almost published book, "Family Atrocities", is also swept under the

As in A Wholly Healthy Glasgow, his first success, Heggie reveals a remarkable gift for combining dramatic stasis and verbal vitality. The titular reference to David Mamet's American Buffalo betrays an influence that is already proving too strong. While a busily cha-otic first production of this play at the Royal Exchange, Manchester, last year con-vinced me that Heggie was stri-

king out in a farcical, experimental direction, this much tighter, more disciplined revival by Lindsay Posner

revival by Lindsay Posner arouses more doubts.

There are long dead passages in between some hypnotically enjoyable exchanges, most of which involve Ken Stott's thuggishly truculent constable. This is partly because Paul Higgins, replacing Tom Mannion, does not evince the propelling Oresteian vengefulness the role demands. Partly, too, because the second act remains unsorted out and subsides into too feeble a resolution and

departure. tainly a brutal essay in style. It arrives from the Glasgow Mayfest glistening with confidence, a palpable bedfellow to the last piece here, Caryl Churchill's Icecream.

The play lacks heart, but never claims it. It sings when it raps on in delayed overlapping misconstructions, harping on feuds over hot water availability and raking up old antagonisms. If looks could kill, Ken Stott is a mass murderer by the interval. Eileen Nicholas, one of our leading Scottish actresses, and Lesley Manville, mother and daughter, inhabit a stylistic strait jacket with energy and aplomb. But the explosion never comes

Michael Coveney

liked our music crashingly,

gency - herdsmen's pipes skirling - and some wistful-**ARTS GUIDE**

Bolshoy Ensemble

ture was conspicuously absent any interest in development in the classical sense, as distinct

"Russian Five" of the last cen-

tury, too; perhaps after all Shostakovich's passion for it was a Westernised taste. Here,

even the most soberly sus-

talmed and conservative piece - the Armenian Tigran Man-

suryan's Concerto for 'cello

and 13 winds - was built in elaborated rondo-style, not by

of Armenian chant; all the music we heard, indeed, sported definite dramatic col-

ours. Natalia Gutman was the

fine, rhapsodic soloist, set off

against ritual pronouncements by the winds. Another Arme-

man piece, Ashot Zograbyan's Serenade, captured an older, pastoral world with raw pun-

There was a strong flavour

classical argument.

Bolshoy Theatre; and they the classical sense, as distinct have given an early thrust to the Festival. Visiting here for that was anothered to the

THEATRE

The Black Prince (Aldwych). Ian McDiarmid gives the performance of a lifetime in Iris Murdoch's distillation of her own doch's distillation of her own Hamlet novel. Witty black farce vitriolic and entertaining (836

vitronic and emercaning (836
6404). Ghetto (Olivier). Brilliant
National Theatre version of
Joshus Sobol's Israeli play about
the last days of the Vilna ghetto
and its resident theatre company.
Moving and shocking. Nicholas
Hytner directs, Bob Crowley
designs, good music arranged
by Jeremy Sams (226
2252). by Jeremy Sams (928 2252). Single Spies (Queen's). The high-light of Alan Bennett's double ingit of Aian Seminet's double hill is a comic confrontation between Primella Scales as Her Majesty the Queen and Bennett himself as Anthony Blunt in the royal picture gallery. Sinon Callow plays Guy Burgess in a rehash of Bennett's fine TV film An Englishman Abroad (184

1165). M. Britherfly (Shaftesbury). Anthony Hopkins as the torture diplomatic hero in a Peter Shafinformatic rest in a recer same fer-style "spectacle of ideas" dressed up in John Dexter's superb production as a metaphor of homosexual life. The transvestite tragedy proves less electrifying than in New York; the play is not very good but still worth seeing (379 5399). A Walk in the Woods (Comedy). A Walk in the woods (Conseny).
Alec Grinness and Edward
Herrmann in feeble off-duty arms
negotiation encounter by Lee
Riessing, Guinness, back on the London stage after 10 years, is

in subtle virtuoso form as the Soviet veteran of tactical stone-

walling and no-dealing tricks
(830 2578, cc 388 1438).
Brigadoon (Victoria Palace). 1947
Lerner and Loewe "heatherscented" Scottish fairytale hit
is handsomely revived and well
sung, less frail than expected
(834 1817, cc 836 2428).
The Vortex (Garrick). Maria Aitken and Rupert Rverett in brililant reappraisal by Philip
Prowse of Noel Coward's 1924
study of drug addiction and
mother fixation. Mannered,
excessive, beautifully costumed.
A must for yupples (379 6107, A must for yupples (379 6107, cc 741 9999). Henceforward (Vaudeville). Mar-

world with a lusty energy of its

study in soulful kitsch, "Amoroso," by Nicolai Korndorf.

Clearly he knows his Messiae

as does Valentin Silvestrov, who set Kests' "Ode to a Night-

ingale" for rapturous soprano (Nelli Lee) over a kind of stately chacome, sonorous and

stately chacomie, sombrous and barely varied. Though the sul-try atmosphere seemed right, the musing proceeded without ever taking a new turn. The younger Vladimir Tarnopolsky offered sharply contrasted pieces. In "Jesu, deine tiefe

Wunde" an elevated mirror-

canon for string trio rose above a tumult of sadistic percussion, whereas his new Brooklynsky

Bridge is a racketty, pressur-

ised cantata about America (and Russia too) which revels

From Moscow there was a

Hencerorward (Vandsville), and tin Jarvis and Joanna van Gys-eghem in bleakly funny and experimental Alan Ayckhourn comedy of future shock and strained marriage. A tale of obsession, devotion, computer music, women as robots, gangs (836 9987, cc 741 9999). Aspects of Love (Prince of Wales), Andrew Lloyd Webber's atest is an intimate chamber operetta derived from David Garnett's 1955 novella. Musically interesting and well directed

by Trevor Nunn. (838 5972).

New York

Heidi Chronicles (Plymouth). Wendy Wasserstein's award-winning drama covering 20 years in the life of a successful Ameri-can baby boomer goes from sup-port for Eugene McCarthy's pres-idential aspirations to electoral ambitions in the 1980s. Lend Me a Tener (Royale). A sprucing up in the set of a decay-ing town's big time opera ambi-tions makes a transatlantic hit of this farce, first produced in

London, but now with a local cast led by Philip Bosco and Viccast led by Philip Bosco and Vic-tor Garber (239 6200), Shirlsy Valentine (Booth). Pau-line Collins beings her West End triumph to Broadway in Willy Russell's amusing and touching story of a Liverpool woman's awakening in the Aegsan Sea. Shoon Callow again directs with-out smoothing any of the North-ern English edges that retain an authentic touch.

an authentic touch Jerome Robbins' Broadway (Imperial). Anyone attracted by he notion of a three hours of the notion of a three hours of film trailer previews will adore this compendium of Robbins' directed and choreographed plays of the past 40 years, includ-ing On the Town, West Side Story and Gypsy. The lustre of the credits is dimmed by the brevity of each place, with a con-temporary crew of Broadway. temporary crew of Broadway sepirants who lack the multi-tal-ents that inspired the musical. Rumours (Broadhurst). Neil Simon's latest comedy is a self-

conscious farce, with numerous alamming doors and lots of mug-ging but hollow burnour that misses as often as it hits. Chris-tine Baranski leads an ebullient cast in the inevitable but disappointing hit. Cats (Winter Garden), Still a sell-out, Trevor Nunn's produc-tion of T.S. Eliot's children's

poetry set to music is visually startling and choreographically feline (239 6263). A Chorus Line (Shuhert). The longest-running musical in the US has not only supported Joseph Papp's Public Theater for eight years but also updated the musical genre with its backstage story in which the songs. stage story in which the songs are used as auditions rather than emotions (239 6200).

Les Misérables (Broadway). The magnificent spectacle of Victor Hugo's majestic sweep of history and pathos brings to Broadway lessons in pageantry and drama (239 6200).

Me and My Girl (Marquis). Even if the plot turns on ironic minit the plot turns on irone mini-icry of Pygmalion, this is no clas-sic, with forgettable songs and dated leadenness in a stage full of characters. It has nevertheless oved to be a durable Broadway hit (947 0033). M. Butterfly (Eugene O'Neill).

The surprise Tony winner for 1968 is a somewhat pretentious and obvious meditation on the and obvious meditation on t true story of the French dipl whose long-time mistress was a male Chinese spy (246 0220). Phantom of the Opera (Majestic). Stuffed with Marta Bjornson's gilded sets, Phantom rocks with Andrew Lloyd Webber's haunt-ing melodies in this mega-trans-fer from London (239 6200).

Speed-the-Plow (Eisenhower). David Mamet's vivid view of Holbywood as a den of thieving deal makers stars William L. Peter-sen, Bob Balaban and Felicity Huffman. Ends June 11 (254

Chicago

Driving Miss Daisy (Brian Street). The touching relation-ship between a downger, played in this production by Dorothy oudon, and her black chauffeu exposes the changes in the South over the past several decades (348 4000).

Steel Magnolias (Royal George). Ann Francis and Marcia Rodd play the leads in this view of

southern life from under the dry-ers in a busy hairdressing estab-lishment (988 9000).

TekveTekve

Kabuki, (National Theatre): Kanadehon Chushingura. The most popular play in the kabuki repertoire, based on the true story of the 47 loyal samural, is performed in two self-con-tained parts at 11am and 2.30pm. (265 7411) Shimbashi Embujo Theatre

Shimbashi kmbujo Theaire: two mixed programmes at 11am and 4.30pm, featuring mainly younger kabuki actors, inchiding Kikugoro and the world-famous onnagata Tamasaburo. Both theatres provide informative English language programmes and the National Theatre has an earphone guide in English. (54) 2211)

Noh. (National Noh Theatre.) Sendagaya (Wednesday only at 1pm) The non play, Sohshi arai Komachi (Komachi washing the Page), is performed together with a kyogen comic interlude, Most other Noh theatres are open only at weekends (Check local press for details) Les Miserables. (Imperial Thea-

ricades. (201 7777) The Phantom of the Opera. Nis-sei Theatre (045 903 5701). This excellent production (in Japa-nese) is a carbon copy of the London original. es in the Night. Theatre

1920s and 1930s. In English.

tre) Strongly-cast revival (in Jap-anese) of the stirring musical of the storming of the Paris bar-Apple, Shinjuku. (587 5444). Musi-cal revue from off-Broadway, featuring black music of the

Lou Reed

What on earth is Lou Reed

LONDON PALLADIUM

doing playing this week at the London Palladium? Last time I saw him he was zombeving around the stage, winding mike leads tightly around his arm while evoking "Heroin." If he survived that evening he was surely destined soon to join Hendrix, Joplin and Keith Moon in Heaven's hottest, lou-chest, rock band. Now, looking like a cross between Cliff Richard, in a trim body and clean cut specs and Keith Richards, in his black gear and nifty cigarette play, while sounding like George Bush with his decorous introductions, Reed seems destined, at 46, to be the great survivor.

He is here to promote a new album, New York, his most successful in decades, and the songs from it have a refined, controlled, cut to them which contrasts with the distorted feedback and amateurish ego-ism of his sixtles work with Velvet Underground which he featured spasmodically, and with a certain disdain, on Monday night. His packed admirers would not let him get away without some homage to that romantic, if deadly, period when the Velvet Underground was the house band to Andy Warhol's factory, and the alternative society. Reed played "Dime Store Mystery" in hom-age of Warhol and although creakingly dated it was a poignant reminder of when we

painfully, discordant. After all Lou Reed inspired first Bowie and then the 1970s Punks. The first half of a generous played out against a mock un

of a Greenwich Village warehouse loft, with Reed leading a quartet of unregenerate hippies. It was mordant stuff, showing off his skills as a cynical lyricist on songs like "Christmas in February", about Vietnam, performed in his anguished talking delivery, like a musical Leonard Cohen. It was a clever incarnation of 1960s cool, with hardly a wasted word or gesture. Then after the break it was

time for rock and roll. although there was room for such idiosyncracies as Reed's breakneck version of Sinatra's "One more for the road." in which he dueted with a stand up six string electric bass. In songs like "Video violence" Reed showed that he is still a jaundiced observer of the contemporary scene, and was obviously always too clever to kill himself with excess. He kept the best till last, the mesmeric "Sweet Jane" and the anthem of the Warhol freaks "Walk on the Wild Side," still the hippiest song in pop music. Lou Reed has not sold out; he has just eged comfortably.

Antony Thorncroft

Research and development

in the international

drug industry

FINANCIAL TIMES

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Iran after Khomeini

ANYONE WHO expected a sudden transition in Iran from fanaticism to moderation after the death of Ayatoliah Khomeini may have had their hopes dashed by the tumultuous scenes at his burial yester-day. Similarly, those who had predicted clerical infighting and confusion in the post-Khomeini leadership have been confounded by the swift suc-cession of President Ali Khamenei, endorsed by a number of potential rivals.

In the longer term, there are reasons to believe that the Ayatollah's death will turn Iran's foreign policy into more moderate channels. It is true that he left a political mine-field for his successors in the form of a lifetime's sayings and a vitriolic final testament: his posthumous outbursts against the US, the Soviet Union and Saudi Arabia will doubtless be exploited to the full by purist hardliners seeking to keep the Islamic Revolution within the narrow confines decreed by Khomeini himself.

But Khomeini's oppressive domination of Iran will be impossible to emulate. Indeed both President Khamenei and Mr Rafsanjani, the parliamentary speaker and the man most likely to become the new President in the August elections, are known for their relatively pragmatic views.

Foreign policy was one of Khomeini's greatest failures. He tried to undermine the Sunni Moslem rulers of the Gulf states, which encouraged them in their support for Iraq over eight years of war. He consistently angered the West and was regarded with suspicion for his anti-communism by the Soviet Union. By con-trast, Iraq, despite its own brand of authoritarianism and the killing of Kurdish civilians, came to be regarded as a country where the rest of the world could do business.

Iran's economy might get a breathing space from increased oil revenues this year, but the need for reconstruction is pressing. Relations between the powerful bazaar merchants and a government divided over the role of the private sector have been uneasy. Again Mr Khamenei, with his close links to the bazaar, will probably try to push economic policy in the right direction. Even the Aya-tollah conceded before his death the idea of long-term foreign borrowing for large recon-

struction projects. Whether Mr Khamenei and Mr Rafsanjani have enough will or enough political power to turn around the Iranian economy and improve the country's international image is an open question. There is not much that the West can do while the domestic drama of the Iranian succession plays itself out. President Bush wants Iran to help release American hostages in Lebanon, and the British Foreign Office wants the threats against Mr Salman Rushdie to be repudiated. They may have to endure a period of Iranian introversion before they get

UK buyouts

IF THE proposed management buyout of the Magnet home improvements group is blocked by institutional shareholders on Friday it will not be the first time that the buyout bandwagon has stalled. An attempt by managers of the engineering concern, Molins, to go private was rebuffed by the institutions only a short while ago. What makes Magnet different is that it is the largest buyout proposal yet in Britain and it is widely regarded as a test case of whether American-style leveraged deals should be allowed to proliferate. The issue has been complicated by protracted debate on the specific terms of the transaction. But on the more general principle, the dissenting institutions' reservations are

largely justified. The most fundamental problem in buyouts relates to the conflict of interest between managers and shareholders. Even where the subsidiary of a quoted company is being hived off into managerial ownership, there is often a suspicion that paternalistic group management is passing the buck for restructuring difficult businesses and making lay-offs.
The original shareholders are the losers. In the case of a quoted company that goes private, shareholders are bound to fear that the management's decision reflects inside knowledge that is not available to the owners of the business.

Increased valuation

Those suspicions are heightened when the bought-out company returns to the stock mar-ket or is sold to a third party at a vastly increased valuation. Small wonder that a new discussion paper from the National Association of Pension Fund's Investment Committee argues for buyout terms to be adjusted to reflect subsequent performance.
That is not to deny that

there are circumstances in which it can make sense for quoted companies to go private. The stock market often puts a lower value on a business than the management believes is justified. There lies buyout at Magnet. As long as

companies change hands at a premium to their stock market value, performance conscious shareholders will play along.
Conflicts of interest can also
be managed in such a way as
to avert trouble. Indeed, part of the reason for the controversy at Magnet is precisely that the non-executive directors were less than euphoric in their recommendation of the deal and the company's merchant bankers were not convinced that the premium being paid for control was adequate. It would certainly not be in the wider public interest to do away with one of the few things in the financial system that militates against conglomeration and encourages manag-

Fee-hungry bankers

ers to focus on core businesses

The real trouble tends to arise where fee-hungry mer-chant bankers are more anxious to do a deal than to strike a sensible balance of risk and reward. Managers can hardly be blamed for taking the bait of a large equity stake and a huge profit-related pay incentive in the knowledge that it is the lending banks that pay the price if excessive borrowing brings the company to its knees. Yet such inducements in the US have contributed to corporate sector debt levels that have reached an unprece-

dented post-war peak.
In the case of Magnet, institutional shareholders, none the less, face an awkward dilemma. A sizeable majority of the ordinary shares favours the buyout. But the terms of the financial package make it difficult for the managers to proceed with the deal unless their offers for both the ordi-nary shares and the convertible go unconditional with at least 90 per cent support. If the deal is blocked and Magnet, whose directors admit to an over-optimistic forecasting record, falls victim to a sharp consumer downturn with consumer downturn with adverse implications for the shares, the majority will have been unfairly penalised. But the institutions would at least have enhanced Magnet's chances of survival by denying it the opportunity to load its balance sheet with debt.

Abbey damned

IN GIVING its verdict on whether the Abbey National Building Society satisfied the requirements of the new building societies legislation on its conversion to a public limited company, the Building Societies Commission does not mince

In relation to Abbey's statutory statement of the advantages and disadvantages of conversion, it diagnoses "nei-ther the care, the quality of analysis nor the objectivity which the commission would expect of the board of a major building society and its profes-sional advisers." There was consequently, we are told, a "significant deficiency" in the information available to the people who voted overwhelm-ingly to back their board. By normal regulatory stan-

dards that is damning language. Perhaps too damning, especially in relation to the Abbey board's statutory obligation to put a case against its own preferred option, which smacks of Lewis Carroll. Indeed, if the situation called for censure on this scale, why did the commission put no more than a technical obstacle

across the path to flotation?

The problem is that the real sanction - refusal to confirm the conversion to pic status -is so blunt as to be near-nuclear. It would have constituted a wholly inappropriate penalty to the Abbey board's less than frank salesmanship in the run up to the vote. But nor does the commission's ferocious dressing down entirely fit the bill. Yesterday Abbey was predictably unbothered.

ritain's biggest pharmaceuti-cals company, Glazo, is con-structing a £500m research campus at Stevenage, 28 miles north of London. In the new laboratories, some of the cream of the world's drugs scientists will work surrounded by ornamental lawns and high-tech gadgetry in an effort to lay the foundations for the group's pros-

perity into the next century.

The new research center illustrates the visionary, reflective side of the companies in the world's £70bn-a-year drug industry, which commonly spend up to 15 per cent of their sales on research and development (R&D).

The other face of the sector –
which carries connotations of a more ruthless, expedient approach and a

willingness to scrap for market share was shown in another Glaxo move last month. A company reshuffle led to the resignation of its highly regarded chief executive of the pas three years, Mr Bernard Taylor. He was replaced by Mr Ernest Mario, a hard-driving American executive. Mr Mario was formerly head of the company's US operations and is considered within Glaxo as better able to guide the group through some of the tough times that might be ahead.

often regarded as a glamour sector, it is also beset by problems. It is continually squeezed by government health agencies and insurance organisations. They are the main buyers for drugs, and they are step-ping up their efforts to contain expen-

Although the drugs business is

 The costs of pushing medicines through the development trials needed to satisfy regulatory authori-ties are rising. These procedures are becoming more onerous as a result of increased public interest in safety problems associated with new drugs. They can often take 10 years and cost up to £70m for each new product.

The researchers at the pure-science end of the R&D pipeline which accounts for roughly a quarter of total outlays and which is concerned only with ideas and experiments rather than with development trials — have in some ways been too

Thanks to advances in scientific techniques such as biotechnology, and better management of research programmes, the number of new drugs being pushed on to world markets has been edging up.

The number, now running at about

50 a year, may well be up to 60 or 70 a year by the end of the century. Many of these products will not, however, be aimed at completely new applica-tions but are more likely to be small advances on existing formulations, in areas of heart disease for example.

Mr Mike Burstall, a UK healthcare

industry consultant, says: "I wonder how many of the new drugs are going to recover their R&D costs." Due to the climate of cost-cutting among many of the big drug-purchasing agencies, room for expansion in the overall pharmaceuticals market may be limited to no more than a few per cent a year. That will place heavy pressure on the drug industry's sales staffs to crank out decent revenues

from the new formulations.

Marketing is already a big financial burden on the drug companies. Unlike the research end of the product development spectrum, which is highly centralised and conducted by closely knit teams, pharmaceuticals marketing is extremely fragmented. The industry relies for most of its reve-nues on convincing individual doctors that specific drugs are worth prescrib-

That entails employing large num-ers of sales staff. To cover the whole of the US a big drug company would normally need 2,000 marketing per-sonnel. The sales techniques used are tailored to the prescribing habits and the general cultural traits of the country in which the business operates. Belgian doctors, for example, are

Peter Marsh looks at the challenges and opportunities facing the international pharmaceuticals industry

Prescribing for medical and other headaches

persuasion by drug companies about the merits of trying out a new prod-uct. Physicians in Britain and West Germany are said to be rather less easy to influence. Sales representa-tives from pharmaceutical companies try all manner of tactics to get doctors to listen to them - from free pens and notepads to all-expenses paid trips to exotic locations for lavish medicines conferences – and the approach may vary widely from coun-

try to country.

Drug companies are not the only ones to talk to doctors in an effort to change their prescribing patterns. In recent years public sector officials, especially in Europe, have made much effort, as part of the general drive to cut government healthcare costs, to persuade physicians to prescribe more generic medicines. These are cheap copies of drugs which are off-patent and are usually cheaper

than the branded formulation.

In most European countries,
generic products already account for
anything between 5 per cent and 20
per cent of the total market. Government pressure means that the proportion is likely to grow over the next few years. That will spell more difficulties for the big, research-based drugs companies which rely on branded products — and an opportunity for the smaller generics groups who do little of their own R&D.

In West Germany, Europe's biggest pharmaceutical market, the official policy on boosting generic products has already had one startling result. In recent months Ratiopharm, a small generics producer, has taken over the top spot in supplying the German market – ahead of Hoechst and

Satisfying the authorities about the safety of a new drug can often take 10 years and cost up to £70m

Bayer, the two big research-based German drugs groups.

Some say the industry's best answer to the high costs of R&D and marketing is to seek bigger groupings through mergers. That is one of the rationales behind the proposed Beecham/SmithKline Beckman merger which shareholders of the two company. which shareholders of the two compas are to vote on t

A number of large European drugs companies, including Rhone-Poulenc of France and Switzerland's Hoffmann-La Roche, have said they are interested in adding to their operations by acquiring US pharmaceutical groups. Companies said by

analysts to be among possible targets include Warner-Lambert, Syntex and American Cyanamid.

But some observers are sceptical. "Bigness does not necessarily mean better," says Dr Joe Zammit-Lucia, a British pharmaceutical consultant. He thinks some drug companies may well shift in the opposite direction, deciding they have more to gain by "contracting out" key functions in either search, development or marketing to other groups.

There are already some signs of such moves, including the establishment of small, 100 per cent researchoriented drugs companies – such as CNS Research in the US and Xenova in Britain – which aim to provide scientific expertise for some of the world's established healthcare companies. A large number of the dozens of nies. A large number of the dozens of biotechnology companies which have been set up in the past decade, espe-cially in the US, may end up largely as producers of research ideas for the giant medicines companies. At sales end of the industry, Marion Laboratories has gained prominence in the US as a drugs company wholly geaved not to research but marketing

geared not to research but marketing. It does nothing else but sell prescrip-tion products devised in the research laboratories of other groups.
Straightforward licensing deals are

also on the increase. They are a par-ticularly flexible way of extending a drugs company's international operations. In such arrangements, a business can either use its sales force to market another group's product or give another organisation the rights to sell its own drug in exchange for a

Big Japanese drugs companies such as Takeda and Yamanouchi have generally refrained from building up their own marketing forces in the West and have relied up to now on licensing deals as a way of getting their products sold outside Japan. That may, however, be changing as many of the Japanese companies step up R&D investment and start to use biotechnology to devise new products which could have large sales potential. Many believe the Japanese com-panies will try to do more to extend control over their overseas operations, possibly by employing their own sales teams. They are on a fast learning-curve," says Mr Hans-Peter Sigg, vice president of Sandoz, the big Swiss pharmaceuticals company. As well as widening their market-

ing reach, companies are also likely to of their R&D. This seems especially likely with Hoechst and Bayer and Cibe-Geigy of Switzerland, which are generally agreed to have had little in the way of research success in recent years. Setting up laboratories in either the US or Japan — something

New products launched on R&D spend as Compounds development 1981 55 3,100 9.9 1982 29 3,300 10.9 1983 37 3,800 11.7 124 1984 36 4,100 12.5 1985 51 5,300 6,100 15.0 1986 44 15.0 1987 49 1988 52 " major compounds only-world industry ** for US companies Source: World Health Organisation and industry sources

which all three companies are doing

may be a way of exposing their
researchers to new ideas and possibly
prodding them into coming up with
world-beating products. The three
groups — and Britain's Imperial
Chemical Industries — have an
advantage in being parts of large integrated chemicals companies. Thus
any now times in their drups had. any poor times in their drugs businesses may be offset by better profits and sales in other operations.

As for production, not much is likely to change. The cost of many of the raw ingredients in medicines is fairly low and the manufacturing pro-cesses needed to turn these chemicals into pills or lotions are not particularly demanding, either in terms of plant or manpower.

As a result, much drug manufactur-ing is organised on what appears an irrational basis. Plants are spread around different markets and are working well below capacity. This is especially marked in Western Europe, where the different national health agencies often let drugs suppliers charge higher prices if they have local manufacturing facilities. The power of these agencies to influence local manufacturing practices will, many observers think, remain strong even after the planned completion of the European single market in 1992.

To escape from their dependence on the spending decisions of frugal-minded public authorities or insurance organisations, some drug companies are tending to take products out of the prescription field and into the straightforward retail market. The

"over-the-counter" end of the drugs market accounts for only about 10 per cent of overall sales — although the proportion is significantly higher in the US — and room for growth may not be particularly high. That has not stopped a number of companies, including the proposed Smith-Kline/Reachem grouping and Well. Kline/Beecham grouping and Well-come of the UK, from eyeing this as a possible place for expansion.

Merck, which intends to remain

solely a prescription-drugs business, has agreed on a deal under which Johnson & Johnson, another big US drugs group, will revamp promising Merck prescription products and turn them into formulations which can be sold through retail outlets. One prod-uct which might be so transformed over the next five years is Mevacor, which is now available only through a doctor. It reduces the cholesterol build-up in the arteries which is behind some types of heart disease.

Over the next few years, the industry will probably develop by combin-ing all these approaches. There will be a certain amount of industry rationalisation through mergers and companies going out of business. together with more imaginative use of marketing and research joint ven-

Permeating all these initiatives will be the recognition that the pharma-ceuticals industry — which in tack-ling the allments afflicting the human race is not short of challenges already must face up to non-physiological
 problems that are just as taxing.

Pöhl gets a rival

■ Karl Otto Pōhl, 59, president of the West German Bundesbank since 1980, is watching with some distaste the jousting over filling one of the key places on the central bank's seven-man directorate. Leonhard Gleske, in charge of international relations, reaches retirement age of 68 in Septem ber. Pöhl, who has struck up a close relationship with Gleske and appreciates his sense of humour, will be sorry

to see him go. Hans Tietmeyer, 57, state secretary in the Bonn Finance Ministry, has been promised the job by Chancellor Helmut Kohl. Tietmeyer, a member of the Christian Democratic Union since 1960, served with distinction in the Economics Ministry under Social Democrat-led governments. He was elevated to his present job with the advent of the Kohl govern-

ment in 1982.
Tletmeyer will bring to the
Bundesbank ability and plenty
of international experience. He will also roughly double his salary. The pay of Bundes-bank directors is a secret, but Põhl is thought to earn over DM 500,000. (A captain of a top publicly-quoted West German company earns well over DM im).

Tietmeyer is also ambitious. In spite of Pöhl's well-developed pragmatism, there are doubts about how well the Bundesbank chief – a former protégé of Chancellor Helmut Schmidt, and a member of the Social Democratic Party will get on with the new

Tletmeyer looks likely to delay his departure to Frankfurt. Theo Waigel, the Finance Minister, who took over the job in April from Gerhard Stoltenberg, has no experience in international finance and has lecided he needs Tietmeyer to help him over his settling in period. So the state secretary can be expected to stay on in Bonn until the first few

OBSERVER

months of the new year while Gleske delays his retirement. Põhl can hardly complain too much about the parachuting from Bonn. He held the same Finance Ministry job as Tletmeyer in the 1970s. Schmidt propelled him to the Bundesbank in 1977 to act as crown prince under the peppery, if brilliant, central bank dent. Otmar Emminger. Not had for someone who set out as a reporter on a local newspaper.

Newcastle's cup ■ Wise Speke, the Newcastle stockbrokers who were beaten only by Cazenove in the number of diplomas from the Secu-rities Industry last month, has scored another triumph. It has won the Northern Stock Exchange five-a-side cup.

The word is that its team scored more goals in a day than poor Newcastle United in a season. That is not quite true, but the Wise Speke side does seem to have a higher average per game. Northern Stock Exchange

is a bit of a misnomer, too. In football terms, it covers the whole of Scotland, the north-east, and the north-west and this year County NatWest even put in a team from Lon-

The finals, involving 25 sides, took place in Mancheste on Saturday. Wise Speke had a bye in the first round, then played four games scoring at least three goals each time. In the final they beat County NatWest, Edinburgh: winners for the last five seasons. But it was a close run thing. Wise Speke were three up after eight minutes, but only won the 15-

minute match 3-2. This being a stockbrokers' competition, the rules are strict. No firm may select anyone whom it does not employ, no outside sponsorship either.



Summer show ■ A trek through the rain to a preview of the Summer Exhi-bition at the Royal Academy. And rather a summery exhibi-tion it turns out to be, inside: fewer pictures this year, but better hung. Around 14,000 works were submitted; 1,185 were selected. Last year there were fewer submissions, but more exhibits.
Such a policy of limiting the

numbers is said to discourage the minnows and artists who have yet to be recognised, espe-cially when it is accompanied by a liberal showing of works by the academicians, as it is this year. But it does make for a better exhibition. Besides, it must be a myth

that there are lots of artists waiting to be discovered. Go round the academy summer show, and it is a fair bet that the paintings at which you will want immediately to take a closer look are those of the already established artists; Turner goes to Heaven by Carel Weight, for example, and the splendid selection from the works of the late Norman Stevens. This rule of being

drawn first to the best applies even if you do not know the artists' work in advance. Incidentally, a London firm of solicitors comes out rather well. For years it had its offices in Great Smith Street, West-

minster. It has now moved to Covent Garden. There is a part-ner in the firm called Cullen, who has a brother called Patrick who is a painter. Patrick Cullen was commissioned to do a painting of the old offices of Beale and Company just

before they were pulled down, and very splendid they look. The work has won the £3,000 water colour prize at the Sum-mer Exhibition and will shortly hang in the new Beale

Not so trivial

■ Reports of Trivial Pursuit's death have been greatly exag-gerated, according to the game's European distributor, Serif Cowells.

Some 3.2m copies of Trivial Pursuit were sold in 1988, on the back of massive French interest in the game. It was the best year since the European launch in 1985. Trivial Pursuit's general

knowledge questions are already printed in 18 languages, and there are 40 to 45 different sets of questions, from sport to pop music. But European sales are now

"maturing", says Cowells. The company yesterday announced it had won the European marketing rights for Nintendo. a video games system which it bopes will become the cult of the 1990s, offsetting Trivial Pursuit's expected decline. Meanwhile, Cowells will be distributing the latter in the Soviet Union.

Point of view

"Name the famous London monument on which the figure has only one eye" was a ques-tion in a general knowledge test at a school in Farnham, Surrey. One 11-year-old girl wrote: "Cleopatra's needle."

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Barry Riley reports on a new type of fund manager emerging in the City

ater this month, Britain's quants - or to give them their full title, quantitative analysts will be gathering in unprecedented numbers. Representatives of more than 40 firms are likely to attend the second seminar organised by a new organisation of fund managers called Inquire. They will include analysts from some of the top investment institutions such as Robert Fleming, Prudential Corporation and Phillips 8.

dential Corporation and Phillips & Drew Fund Management.

Considering that only a few years ago the quants were regarded as eccentric boffins, the change in attitudes has been remarkable. The reason is simply that quantitative managements. that quantitative managers have begun to pull in business on a big scale. Last year Barclays de Zocte Wedd

Investment Management, the market leader in index funds, which are basic quant products, took on more than 21bn of new business. Its total of indexed portfolios is now more than £4bn. That kind of money talks, even in the most traditional corners of the City of Lon-

According to Inquire's chairman, William Goodsall of Barbican Capital Management, the October 1987 stock market crash served to focus attention on risk, crass served to locus attention of risk, and had perhaps exposed the shortcomings of conventional management. Such managers were suddenly struggling to justify themselves. But more fundamentally, the professional investment business has matured and become more competitive. "Fund management has

become a zero or negative sum game for the big players as a whole," says Mr Goodsall. "That has really sunk in."

Like most investment techniques, quantitative management originated in the US. Further big inroads into the UK market are predicted by Andrew Rudd, chief executive officer of Barra, a California-based consultancy which supplies many of the models and techniques many of the models and techniques used by quantitative managers.

Barra opened its London office back in 1981. Five years ago Mr Rudd made converts of leading managers at Barciays and also at County NatWest Investment Management, now the second-biggest index fund manager.

Although he has since picked up another 40-odd clients in the UK and elsewhere in Europe. Mr Rudd reckons

elsewhere in Europe, Mr Rudd reckons that this is only the first stage of development. These are all, as it were, on the supply side of portfolio management managers, consultants and brokers. The next step will be to serve the clients. "It is inevitable that sponsors and

trustees are going to become far more demanding of the managers they hire," he says. "This is a natural outgrowth of

passive management."
Passive management, usually involving the tracking of an index, is a common way of using quantitative tech-niques, which include the employment of computer programs and databases. However, quants also run active funds, selecting stocks by statistical methods — for instance, by screening out stocks with the desired characteristics from long lists — and balancing portfolios through risk greateristics.

What they do not do is come into the

The quants are coming

office in the morning and decide that Courtaulds is a sell because of adverse exchange rate movements, or that BP is cheap because of trends in the oil market. "Judgmental managers will be out of business within five years," predicts David Damant of Paribas Asset Manage-

ment, who is inquire's secretary.
Inquire - which is an acronym for Inquire — which is an acronym for Institute for Quantitative Investment Research — is a somewhat belated clone of the Q Group, a New York body which has 78 member firms. The link with Inquire is through Dale Berman, of the New York soft commission house Lynch, Jones & Ryan, which founded the Q Group and was the catalyst in getting the British group off the getting the British group off the ground. He is Inquire's vice-chairman. Mr Berman has applied a well-tried formula. For a start, the subscription is a hefty £3,000. "People take something more seriously if it carries a price ticket that they have to stop and think about," he suggests. It is hoped that work with a real commercial value to members will be produced. But what-ever bappens, the status of the quanti-tative approach should be enhanced. "We do not say that investment is a science, but there are elements of science to it," says Mr Berman.

The coming together of competing commercial firms in this way may not be without strains. Already there is a certain amount of embarrassment in the absence of the two leading UK bership list of Inquire.

According to Christine Downton, chief executive of County NatWest Investment Management, she thought "long and hard" about joining but felt that County could not learn much, at least in the early stages. At Barclays de Zoete Wedd Investment Management, too, there was a feeling that Inquire was a group of late-starting firms trying to catch up.

to catch up.

What might County and BZW be missing? "We are not going to tell people how to run their businesses, but we are going to give them a better toolkit," promises Mr Goodsall. Moreover, Inquire aims to provide quantitative managers with a focal point that they lacked before. "They were not always supported by their firms," he observes. Specific research may include projects on the returns from successfully jects on the returns from successfully and unsuccessfully defended takeover situations, while there is thought to be a lot of potential work on cross-border

Next month's seminar is on the apparently dull but potentially crucial subject of international accounting anomalies: the fanciest computer pro-gramme cannot successfully pick stocks from an international list unless the information on earnings, cash flow, sets and so on is comparable It could all amount to quite a revolution on the fund management scene.

Quants tend to be a different breed of manager. They are often mathematicians or actuaries - sometimes even the ex-nuclear physicists or "rocket scientists" of fund management folklore.
They turn naturally to their PCs for inspiration. The managers they replace tend to be arts graduates, and to be rather better at client presentations than they are at handling a Lotus 1-2-3

Quants are still thin on the ground. Several fund management firms have been embarrassed recently by the departure of their temperamental in-house gurus more or less in mid-pro-gram. To some extent, basic services supplied by consultants, notably Barra, can help fill the gap for low level prod-ucts such as UK or US index-tracking funds. But already the pressure is on for more sophisticated types of offering. Global index funds, for instance, have

become very successful - spurred on by the dismal experiences many actively managed institutional funds have had in the Japanese and US markets over the past year or so. The next stage is in added value products such as "tilt" funds which attempt to capture an extra plus factor - such as the net worth effect, a degree of outperformance which has in recent years been observed with UK equities featuring high asset backing – and graft it on to

high asset backing – and graft it on to the index return.

Beyond that, active quant fund man-agers seek to outperform the market by analysing risk and return, and using the power of computers to add return in a controlled way. Anomalies are eagerly sought, such as the "January effect" or the "small company effect." Quantita-tive methods can either be applied at the level of individual stock selection or "top down," that is, in terms of overall lactical asset allocation between differtactical asset allocation between different equity markets, bonds and other investment alternatives.

investment alternatives.

The rise of the quants has not happened without opposition. There are complaints that they do not always deliver what they promise: independent performance measurers have found that index funds often miss their targets by more than the managers claim.

Some of the more complex techniques can come apart in practice. For instance, so-called portfolio insurance, which was supposed to reduce or elimi-nate the risk of a declining equity market, was marketed heavily to US funds during 1986 and 1987, but disintegrated in chaotic market conditions during the October 1987 crash.

But, according to Andrew Rudd, the revolution is getting under way in the UK. "Very few active managers in the UK have really thought about where their information comes from and how they make use of it," he says. "To provide added value you have to know what advantage you enjoy relative to the competition.'

Many of the big traditional fund man-agers in Britain have begun to hire quantitative analysts. This does not yet mean that they have become converted to the belief that the new approach is superior. But at the very least the quants have become respect

US-Japan relations

Why managed trade is a bad idea

By Robert Lawrence

or most of the post-war period the US has sought a liberal trading order. But Americans have become so vexed with Japan that today many are calling for a new objective. If they have their way, should the current US approach to Japan using the Super 301 framework not show results, the US will change its demands. Instead of trying to get Japan to play by the rules of free trade, US-Japan trade will be managed to

guarantee results. A managed trade agreement with Japan may make num-bers look better in the short term, but the long-term impact would be disastrous. To implement a managed trade policy now, just as the Japanese economy is becoming more open, would hurt the US and reinforce those features of Japan that have made its market so

difficult for foreigners to crack.
Japan's imports of manufactured goods are unusually low for an economy at its stage of development. While some economists question whether import barriers play a role in this pattern, the big price dif-ferences for the same products in Japan and elsewhere suggest something prevents mar-ket forces from arbitraging

these differences away.

A specific version of managed trade, proposed by Henry kissinger and Cyrus Vance, would limit the trade deficit between the US and Japan to a iollar total. But this would not open the Japanese economy. Japan would prefer, as it always has, to meet such a limit by restricting its exports

to the ŪS.

What is worse is that no one would be more delighted by this form of managed trade than the bureaucrats at Japan's Ministry of Interna-tional Trade and Industry (Miti). Mr Kissinger and Mr Vance would be giving Miti the ability to deprive or grant Japanese firms access to the US market. Miti would use its enhanced power to implement its vision of Japan as a super-power in high-tech products. It would favour such products a semiconductors, computers and high-definition television. US firms in these industries would still feel the brunt of Japanese competition and

would still rush to Washington seeking protection. Having taken care of its strategically important products, Miti would distribute the remaining export opportunities to the firms that could get the highest prices in the US market. A second version of managed

trade puts the focus on what Japan buys. A report, recently ibmitted to Mrs Carla Hills, the US Trade Representative, by her Advisory Committee for Trade Policy and Negotiations, proposes making Japan adhere to numerical targets for the imports of particular products. This approach settles for ensuring that Japan merely pays a tithe to foreigners in exchange for the freedom to export to them. Industry-by-industry targets can only be enforced if MITI is given the power to organise buying car-tels. This in turn would create a Japan inc.

Even acting in good faith, the Japanese government could not carve up many of its economy's markets for foreign goods. You can put goods on the shelves but you cannot make people buy them. Even where it did succeed, it would be counter-productive. Forcing the Japanese to buy goods by government edict is hardly the way to enhance the reputation of foreign products in Japan.

Managed trade is simply a had idea. It replaces competition among firms with competition among firms with competition.

tion among bureaucrats. The division of powers in the US political system is particularly ill-suited to managing the details of the economy. In the US any attempt to divide up the pie would not be based on trategic economic and trade strategic economic and trade criteria. Rather, it would be based on political trade-offs that would reflect lobbying skills and masquerade under the rubric of "fair shares."

US policy towards Japan needs a two-pronged attack - detailed reforms in specific industries complemented by the broad incentives of a strong yen. There is no substitute for the unpleasant task of negotiating in detail changes in the specific practices that prevent foreigners from doing business in Japan. It will take administrative energy and political commitment.

Contrary to conventional

wisdom there is evidence that tough detailed negotiation to change rules works. The report issued to Mrs Hills notes that after years of pressure, virtually all barriers to US sales of tobacco in Japan have fallen. It also says that the talks about medical drugs and equipment. electronics, forest products, and telecommunications have paid off. From 1985 to 1987. US exports to Japan in these four categories combined rose by 17 per cent - twice the growth rate of total US exports to Japan. Negotiations with Japan have also opened the markets for beef and citrus. The problem therefore has not been the approach, but the limited resources and narrow focus of the talks.

Such negotiations must be reinforced by an even steeper rise in the value of the yen and not simply a reversal of its recent unfortunate drop. The discussion in Washington about US-Japan trade is like a broken record. It displays an amazing ignorance of the pro-found changes currently under way in Japan, which result from the strong yen. In the last three years the volume of Japanese manufactured goods imports has increased by 80 per cent. In 1988, total US exports were 67 per cent more than in 1985; US manufactured goods exports were up 79 per cent. Attractive prices, attributable to the strong yen, are raising the share of foreign products in Japanese markets. Japanese consumers are at last realising that their closed market prevents them from enjoy-ing cheaper foreign goods.

It would be foolish to set Japan back on the road towards managed trade. The Japanese are finally freeing their market after years of American pressure. The US should try to keep the yen strong and not give up trying to level the playing field. If it tries to rig the game, it will not be one worth winning. It would be ironic if the US were to abandon its post-war strategy of calling for free trade just at the time that Europe, the Soviet Union, and many devel-oping countries were affirming the merits of the market. The author is a Senior Fellow at The Brookings Institution in Washington DC.

<u>LETTERS</u>

Put the cap on straight

From Mr Michael Elton. Sir, May I comment on Eric Short's article (June 3)? Following the Chancellor's Budget speech, we certainly approached the issue of proposals to impose an earnings cap on pension benefits qualifying for tax relief with "dignity and decorum." But this had only produced an adamant rejection

produced an adamant rejection of our representations.

It is unfortunate that it should be thought "naive" to rely on Mr Lawson's pledge, in his 1985 Budget speech, not to introduce a fundamental reform without first publishing a green paper. It would be a sad day for democracy if that were so.

were so. The Finance Bill is already in its committee stage. The time is short if we are to get across that we are not ashamed to expect the Chancellor of the Exchequer to

stand by his pledge. Michael Elton, Director General, The National Association of Pension Punds, 12-18 Grosvenor Gardens, SW1

Bio-Isolates

From Mr Alan Staple. Lex has got it wrong (May 31) in classing Bio-Isolates as a boom/bust biotechnology stock that is now being set straight by a large company.

The initial rise in Bio-Iso-

lates' share price, from the 38 pence issue level to 425 pence, had more to do with the share marketing practices of Mr Chander Singh and his now defunct London Venture Capital Market, as well as the tiny size of the initial issue (875,000). The subsequent retreat of the share price below the issue level reflected the company's poor results.

Since 1986 Bio-Isolates has increased sales at a rate of over 50 per cent a year, and turned a loss of £562,789 in 1985 into a profit for 1988. Shares have responded accordingly.

Bio-Isolates is not involved in the fermentation, monoclonal antibody, or hybridoma techniques used by many biotechnology companies. Instead, Bio-Isolates has successfully exploited an ion exchange technique for separating pure pro-tein from cheese whey. Alan Staple,

219 North Churton Street, Hilisborough, North Carolina, USA

Domestic difficulties

Sir, Reports such as yours, on the way the Euro-elections are being used for domestic purposes (June 5), force one to the conclusion that it was a mistake to turn the European Assembly into a directly elected Parliament in 1979.

Such as it is, we must face the fact that Europe was not ready for such an initiative. The founding fathers were wise to place the limits on it that they did, and probably would not have expected them to be abandoned after such a

short time. The fundamental problem with the European Parliament is that it serves to heighten the sense of individual national sovereignty in the member states at a time when it is becoming increasingly clear that what is required is not the extinguishing of national sovereignty, but a softening of its expression so that the way to true European harmony and unity is prepared. We have seen in the Soviet Union the dangers of suppressing rather than civilising the instincts that make people want to rule

It is not only in France, but

From Mr Brian Reading.

European elections being used to fight the domestic battles within the member states There should have been no question of "democracy" at the European level until we had evolved an understanding of what the real European issues are, and separated them, on

the one hand, from what is global, and on the other from what is rightly the province of national governments.
Clearly, many of the arrangements for trade would be more than European if we are going to avoid creating a "fortress Europe." Many of the regulations that emanate from the Commission are less than European, and they ought to be created and applied as closely as possible to the peo-ple they affect, not in far away

That Brussels and Strasbourg have their roles is indis-putable, but to act out those roles before we achieve com-mon agreement about the issues that are genuinely European will slowly destroy the Community.

Demand is not the problem

Sir, Tim Congdon argues (Letters, June 6) that "when a non-bank agent buys a new issue of government debt it writes out a cheque to the Gov-ernment, and this reduces its bank deposits. The effect is to cut monetary growth." That depends on what the Govern-ment then does with the

money it receives.

Because the budget surplus is not increased by overfunding, the national debt cannot have been reduced. The Gov-ernment must therefore use the excess funds it obtains from overfunding to reduce some other form of govern-ment borrowing or to increase government lending. In the past it has bought commercial bills (that is, increasing its lending to non-bank agents), but it could equally reduce the Treasury bill issue. Either way it pays cheques to the same amount to non-banks or to banks. Its cheques to non-banks directly replace lost deposits. Then all that is changed are relative interest rates between gilts and other securities which, as Mr Brittan

John Coleman, Editor, New European, 14-16 Carroun Road, SW8

has argued (June 1), has merely a cosmetic effect.

A more important flaw in monetarist thinking is Mr Congdon's assertion that "reductions in the growth rate of broad money (were) a neces-sary and sufficient condition for a reduction in inflation."

They are indeed necessary. But in the short run they are not sufficient: the initial reduction in nominal GDP is usually because of lower real output instead of slower inflation. In the medium term lower real GDP causes higher unemploy-ment. Lower real output also lowers investment in new capacity. The capital stock shrinks, and in the longer run inflation accelerates or the balance of payments deficit grows,

at a higher level of unemploy-ment than before. Britain's problem is too little industrial capacity, not too much demand. But you will never persuade industry to increase the amount it is able to produce by reducing the amount it is able to sell. Brian Reading, 83 Shakespeare Tower,

Kashmir's future

From Miss Brigid Keenan. Sir, David Housego writes that Kashmir "was the one Moslem-dominated state that refused to unite with Pakistan and choose instead to remain

with India" (May 6). He does not mention that for 110 years the Moslem people of Kashmir had been ruled by a Hindu Maharaja who, alarmed by the rapid advance into Kashmir of a horde of 2,000 ill-disciplined Pathan tribesmen (hardly "troops"), promised Kashmir to India in exchange for the immediate assistance of the Indian army in expelling

No decision about Kashmir's future had been made before that invasion. Indeed it had been agreed to hold a referendum to allow the people of Kashmir to choose for themselves. Whether or not the referendum would have taken erendum would have taken place we will never know, for the tribesmen's invasion forced history's hand. India therefore kept both Hyderabad (predominately Hindu with a Moslem ruler) and Kashmir (predominately Moslem with a Hindu ruler).

After the indo/Pakistan war in Kashmir in 1948-49, the UN
security council proposed
again that a referendum
should be held, but India has
always refused to recognise this proposal. Brigid Keenan,

Delegation of the Commission of the European Communities in the Gambia, 10 Cameron Street, P O Box 512,

Pay at the top

From Mr C.D. Power. Sir, Your article "BA chair-man doubles his pay" (June 2) is, at best, naïve. The remuneration of chairmen of public companies typically consists of a base figure, objectively determined by a committee of non-executive directors, plus (in some cases) an incentive payment calculated according to a pre-agreed formula linked to the company's performance.

The implication that a chair-

man fixes his own remuneration is grossly misleading. C.D Power,

113 Park Lane, W1

It used to take four to six years for a fruit tree to produce fruit. And people al ways had this dream of faster and better

harvests. Now DSM, one of Europe's largest chemical companies, has helped realize is enriched with a special fertiliser which

In co-operation with the Research Station for Fruit Growers in Holland, the drop, moisture and nutrients. In exactly researchers at DSM have developed a com-

pletely new fertilising technique for northwest Europe. They call it 'fertigation'.

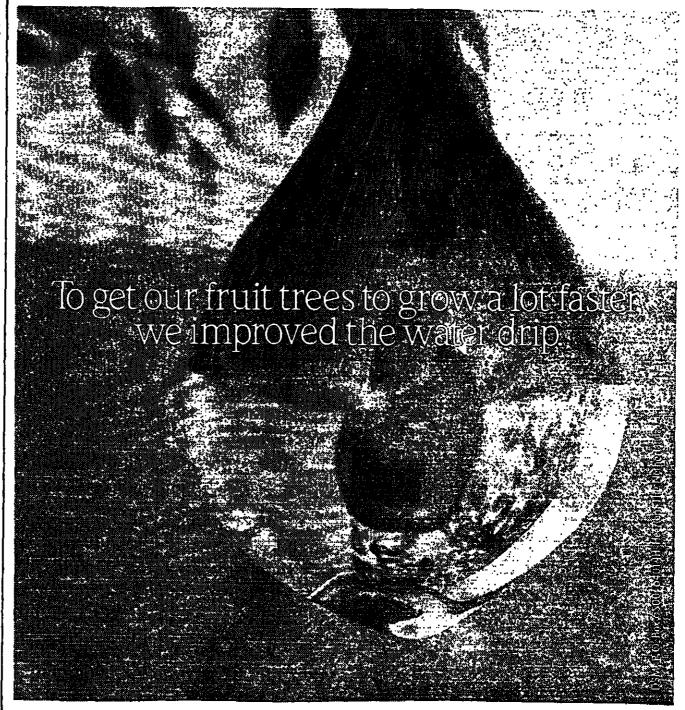
It uses the environmentally benign drip irrigation system. The drip, however, is fully soluble in water.

Thus the roots receive, drop by

able: since we improved the drip, we've been able to harvest at least a year earlier And both the yield and the quality have improved tremendously.

Fertigation is one of our technologies which is certainly bearing fruit.

the right amounts. The results are remark. If we don't have a solution, we find one.



FINANCIAL TIMES

Wednesday June 7 1989



Hysteria disrupts the burial of Khomeini

THE BODY of Ayatollah Khomeini was eventually buried yesterday in a dusty grave at a vast necropolis outside Tehran, after hysterical scenes had forced a delay to the

Earlier, as the first attempt to bury Iran's spiritual leader got under way, frenzied mourn-ers grabbed at the white funeral shroud that covered the body, ripping it to pieces and causing the corpse to fall to the ground. This occurred when the body was being transferred from a helicopter as it arrived at the burial site on Tehran's outskirts.

The bearded corpse was hurriedly placed in an ambulance sought to restore order among a weeping and frenzied crowd

The body was finally buried at about 4.30pm, Tehran time, some six hours after the first attempt. So dense was the crowd around the specially constructed mausoleum that the authorities were forced to ferry the coffin and principal mourners to the gravesite by helicopter. As the coffin was lowered into the grave amid clouds of dust kicked up by mourners, some of whom tried to throw themselves into the grave, a military salute was

A near-hysterical commenta-tor on Tehran television alternately sobbed and prayed while describing the extraordinary scenes at the Behesht-e-Zara cemetery, where tens of thousands of war dead from the Gulf conflict are buried. "Oh Khomeini," the comme tator choked repeatedly into the microphone as the coffin

Revolutionary Guards in khaki uniforms fought desperately to keep back the crowd of mourners and to protect digni-taries at the graveside. The emotional frenzy whipped up by the father of Iran's revolution presented the authorities with a massive security prob-

At least eight people were crushed to death on Monday and hundreds injured at a huge prayer ground north of Tehran where the body was lying in state. Many more were injured yesterday and there are believed to have been further

Newspapers carried Ayatol-lah Khomeini's last will and testament in which he urged Islamic people to rise up against the godless West and atheistic communism to create a divine Moslem nation, "the greatest power in the world." Few Iranians believe that the

leadership transition will pass smoothly. Many are bracing themselves for further upheaval. Ayatollah Khomeini dominated his country since he returned to Iran in 1979 after the Shah's removal in a popular uprising. His death at 86

Iran's uneasy power-sharing deal

Tony Walker in Tehran analyses the chances of two former rivals being able to rule without challenge from more radical factions

"TOO MANY power centres is just as bad as the concentra-tion of power in the hands of one man," was the observation nade in April by President Ali Khamenei, successor to Iran's deceased spiritual leader, Aya-tollah Ruhollah Khomeini.

The words seem curiously relevant today as Ayatollah Khamenei – the 49-year-old President was hastily elevated to senior clerical rank on Sunday – prepares to assume some of Khomeini's responsibilities, although without his

What has emerged since Khomeini's death at the week-end is the makings of a leadership deal between Khamenei and his former rival and putative replacement as president of the republic, Hojatoleslam Ali Akbar Hashemi Rafsanjani, presently the powerful parliamentary speaker.

Mr Khamenei and the 54-year-old Mr Rafsanjani, under this arrangement, will share responsibilities for the spiri-tual and temporal direction of Iran. However, it would be extremely surprising if all goes smoothly and if the two are able to rule without challenge from more radical factions in

"It is obvious now that Kha-menei and Rafsanjani have joined camps," said one Ira-nian observer. "For the time being, the more radical elements grouped around Hojato-leslam Ali Akbar Mohtashemi, the Interior Minister, have been obliged to sit quiet."

A new constitution, a draft of which was circulated almost on the eve of Ayatollah Khomeini's death, helps to establish the framework for a new leadership structure that would accommodate, in the short term at least, the ambitions of both President Khame-

nei and Mr Rafsanjani. The proposed changes are due to be put to a referendum on August 18 - the same day as the presidential election – and would vastly increase the authority of the presidency, changing the post from a largely ceremonial to an

A job is in effect being cre-





Khamenei (left) and Rafsanjani: together they would be responsible for the spiritual and temporal direction of Iran

ated for Mr Rafsanjani who, together with Mr Khamenei, was one of the vice-chairmen of the constitutional drafting or the constitutional drating committee. The question is whether ambitious men in the quarrelsome upper echelons of the hierarchy will allow the new leadership to settle down or seek to disrupt the arrange-

The authorities are evidently

remarked after Mr Khamenei was confirmed as his father's successor that "to the bitter disappointment of the Islamic Revolution's enemies, they have now witnessed that we were able to choose a new leader within hours of the

preference for Mr Khamenei. At the most, it seems Kho-

The authornies are evidently sensitive to the possibility of upheaval, and great emphasis is being placed on unity in the immediate aftermath of Ayatollah Khomeini's death.

Hojatoleslam Ahmad Khomeini, Ayatollah Khomeini's total and son the son

influential 43-year-old son,

Imam's death." meini did not specifically nominate President Khamenei. whose second term as president will end with the elections, claims are now being made that after the fall from grace in March this year of Ayatollah Hossein Ali Monta-zeri, the previously designated successor, Iran's spiritual leader had indicated a clear

Although Ayatollah Kho-

meini merely mentioned Mr Khamenei as a possible alternative. In the absence of an obvious successor with sufficient prestige and authority, Mr Khamenel became a com-

Some Iranians believe the swift decision was motivated by an almost desperate desire by an almost desperate desire to preserve the Iranian revolution from challenges that might materialise at the first signs of fragmentation of the leadership after Ayatollah Khomein's death.

"I was surprised it was done so early and so emphatically," said one Iranian observer. "It was almost a sign of weakness ... of hysteria."

Significantly, various power-ful elements in Iran, including the Revolutionary Guards and the regular army, almost immediately pledged their allegiance to Mr Khamenei.

Mr Khamenei and Mr Rafsanjani, whose conspicuous rivalry of two or three years ago has subsided - at least in public – are in some respects complementary individuals. While Mr Khamenei is an erudite and somewhat scholarly figure with impressive qualifications in Islamic jurisprudence, Mr Rafsanjani is a more earthy type better equipped to communicate with the masses. Both have good revolution-ary credentials. Both were jailed during the time of the

Shah, and both were long-term disciples of Ayatollah Kho-meini. Although relatively youthful, they are members of the Iranian Revolution's histor-

ical leadership. Both appear to have sound connections with the military and with the Revolutionary Guards, which could prove cru-cial in the weeks and months ahead. Their doctrinal views on critical issues facing Iran such as the role of private busi-ness, the desirability of foreign borrowing, land reform and relations with the outside world are not clearly defined, but their records suggest a reiatively flexible approach.

It remains to be seen if they

will feel free to initiate reforms that might be interpreted as contradicting Ayatoliah Kho-

meini's wishes.
The deceased spiritual leader leaves behind a vast litany of views and pronouncements on almost every subject under the sun. These could be used by the various factions to justify opposition to almost any new

There is no certainty that the paralysis in policy-making that has characterised the years of the Iranian Revolution

will end.

If there is a hopeful sign for the West in the emerging new leadership, it lies in the fact that both Mr Khamenel and Mr Rafsanjani have exhibited a relatively pragmatic view of the outside world. Mr Rafsanjani particularly has spoken of the need for Iran to build bridges to its neighbours and bridges to its neighbours and to the West – to end its isola-tion. There has been no indication that Mr Khamenei disagrees with this perspective.

It was also notable that both men were conspicuously unenthusiastic about the campaign against Salman Rushdie, author of The Satanic Verses, the book in which references to Islam offended Moslems. Both Mr Rafsanjami and Mr Khame-nei feli into line only when Ayatollah Khomenei turned the issue into a cause célèbre. Mr Khamenei, in fact, had at one time suggested that Mr Rushdie could be pardoned.

Security alert as Uzbekistan riots claim 50 lives

By Quentin Peel in Moscow

THE SOVIET UNION'S seething ethnic tensions burst into the open again yesterday, as the death toll in bloody clashes between rival groups in the central Asian republic of Uzbekistan rose above 50. A huge security operation, involving more than 6,000 Interior Ministry troops, is under way in the Fergana valley of the republic, where intoxicated Uzbek youths went on the rannage at the week. intoxicated Uzbek youths went on the rampage at the weekend, murdering dozens of minority Meskhetian Turks.

Full details of the riots emerged only yesterday, after earlier official reports put the death toll at only two. They came as deputies in the country's new Congress of People's Deputies disagreed bitterly on national relations, with a storming speech by Mr Valentin Rasputin, a leading Russian writer, in defence of Russian nationalism, and a walk-out by Estonian deputies.

walk-out by Estonian deputies. The extent of the death toll was confirmed by Mr Rafik Nishanov, leader of the Uzbek Communist Party, as he was elected to the important post of chairman of the Soviet of Nationalities, one chamber of the country's new standing

He blamed the furious rioting in Ferghana on "the van-dalism of Uzbek youth," many of them drunk or high on drugs, who had attacked the rival Meskhetian community with chains, axes and sticks, and set fire to their homes.

Reuters last night quoted an Uzbek journalist who put the death toll at 56, of whom 43 were Meskhetian Turks. Another 385 Turks and 136 Uzbeks were in hospital, as were 17 soldiers and five

The Meskhetian Turks origi-The Meskquan Turks drigi-nally came from south-west Georgia, on the border with Turkey, but were deported by Stalin in 1944, accused of pro-viding "a stronghold for for-eign subversive groups." Some 160,000 who live in

Uzbekistan have been campaigning ever since to return to their homeland.

Mr Nishanov blamed the immediate cause of the riots on a fraces over the price of the process.

strawberries in a local market, followed some days later by renewed clashes in which one Uzbek youth had died. all the issues of national fer-ment burst into the open, lead-

ing to a passionate outburst from Mr Rasputin. "Russo-phobia has spread to the Baltics, Georgia and other republics," he said. "Anti-Soviet slogans are interchange able with anti-Russian slo gans." He accused "emissaries from Lithuania and Estonia" of creating a united anti-Rus-sian front.

To stormy applause, he called for Russia to leave the Union, rather than the minor-

Airbus to develop

orders for the aircraft this

next 20 years. Aerospatiale said that Air-

134 aircraft next year, to 136 in 1991 and steadily up to 200 in The French partner said Airbus A-320 production of six aircraft a month would be increased to seven by the end of this year and reach a

The agreement includes Aerospatiale, British Aerospace, Aeritalia, MBB of West Germany and Casa of Spain which have formed a grouping called Euroflag (European Future Large Aircraft Group) to work on a new military

Military Aircraft) association, which included Lockheed of the US. Casa has replaced the US concern in the new European grouping. Mr Martre said, however,

that Euroflag would consider co-operating with an American

The unique AMTECH radio remote automatic equipment identification system US partner. In a further development Aerospatiale disclosed that it had linked up, in a consortium called Eurosam, with the Italian Selenia group and the French Thomson CSF defence

THE LEX COLUMN

Brands back in the spotlight

The price paid by BSN for Nahisco Europe revives issues dormant since the Rowntree deal. Perhaps the Europe-wide consolidation of the food industry is a reality after all. Per-haps, too, the yawning gap between stock market and industry valuation of brands is overdone. BSN seems to be paying 27 times prospective paying 27 times intospective earnings, more even than Nes-tle paid for Rowntree: while United Biscuits – the closest parallel to Nabisco Europe, and

parallel to Nabisco Europe, and a vastly stronger company— is on a multiple of 12.

But like Nestle, BSN is paying twice: once to get the brands, and again to deny them to others. The deal makes it market leader in UK crisps and snacks, and number two in UK biscuits, besides consolidating its position in France. But it also slams the door on UB's most obvious route into European biscuits, and Pepsleo's into UK snacks. In the process, BSN will be gearing itself to formidable levels; but a rights issue is not unlikely, and it could still choose to sell on selected bits to the other thwarted suitors.

For KKR, the price is as much as could be hoped for, and lends credence to a target of around \$3bn for Del Monte. The shock waves will be felt more in the UK, which accounts for two thirds of Nabisco's European sales. UB's shares rose on the deal, pre-sumably through relief that it will not be paying silly prices for Belin or Saiwa. But the market may subsequently reflect that BSN, previously touted as a bidder for UB, is

instead a competitor which may well prove more durable than Nabisco did.

But perhaps, in the end, the market will come back to brand valuation. UB is one of three top-class branded food companies in the UK. Of the others, Cadbury has General Cinema on its tail, and RHM this kind of money for second best, BSN might well ask itself who will end up in charge of

Abbey National

The Abbey National manage-ment must be grateful that it has escaped from the clutches of the Building Societies Com-mission and will now be supervised behind the closed doors of the Bank of England. Even if the Bank felt strongly about the Abbev's behaviour it would not launch the sort of public attack that the BSC did yester-day. No doubt the BSC has to

NEWS

REVIEW

In full strength

Hyper forecourt

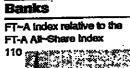
Briefly...

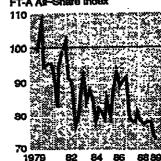
Ferranti Industrial Electronics

Ferranti Industrial Electronics has won a contract for the design and development of the petrol forecourt at the show-piece Savacentre hypermarket at Merton, South London, the largest hypermarket ever built in this country. Under the contract, Ferranti Autocourt will supply and install tanks, pipework, electrics, pumps and canony.

at Paris Air Show

BUSINESS





the severity of its criticism of the Abbey board undermines its own credibility. If it feels so strongly, it should have blocked the flotation; or, given the importance of the move for the entire building society movement, it should have taken the initiative and appointed its own independent advisers to challenge the

Abbey's case.
The BSC's intervention, which might have something to do with the fact that it has just lost a large chunk of its business, is unlikely to prevent equally determined societies following the Abbey's path. A far greater obstacle is likely to be the market's appetite for building society paper. Despite the Abbey's expensive public relations effort, it is hard to see why it deserves to yield less than the prospective 7% per cent offered by the UK bank sector. Less aggressive societies might feel that this is too high a price to pay just to escape from the BSC.

CGE may well be right that its "hard core" of friendly shareholders risks being plucked out at any moment by the Socialist government. The Socialists would no doubt dearly love to see the share register of CGR take on a dif-ferent political colour, and as they saw no need to play fair over Société Générale, CGE could be forgiven for fearing undue government interfer-ence in its own investor rela-

But if the Government has proved to have only a tenuous grasp of the principle of share-holders' democracy, CGE yes-terday demonstrated a fond-If shareholders go along with this latest scheme for self-de-fence, they will find that they can buy as much of CGE as

they like but can never control it. COE may well argue that the 8 per cent limit is a level of takeover protection which is only normal in Continental Europe. But if Parls is to stake its claim as the premier Continest claim as the premier Conti-nental European bourse, it will not be by sinking to the level of its neighbours in the matter of takeover prevention. On a day when Britain saw its hig-gest snack manufacturer fall winder Franch Control Conunder French control. CGE could scarcely have done less to promote the image of a level playing field.

Gateway

With Gateway's last defence document out of the way -curiously muffled, as its argument has been throughout the choice is between an Isosceles victory and a counter-offer. A buy-out from Mr Monk faces one central difficulty. Isosceles aims to relieve its debt burden immediately with asset sales. Mr Monk could not asset sales. Mr work could not do the same without tacitly admitting the flaws in Gate-way's structure which lie at the heart of the opposition case. Meanwhile, a European or US white knight would be gambling on a quite unprece-dented scale on the future of trans-national retailing. The odds must be on Isosceles after

New Zealand

The New Zealand economy has its problems, but these cannot excuse the massive cannot excuse the massive losses reported by Bank of New Zealand, the country's biggest bank. Last year it lost NZ\$34m, which is more than it made in the previous six years, and if it were not largely owned by the New Zealand Government it would be bust. It has passed its final dividend; and minority shareholders, who paid NZ\$1.75 a share only two years ago when it came to two years ago when it came to the market, are now being asked to fork out another 70 cents a share to finance a rights issue at a substantial premium to net asset value in order to repair the bank's capital ratios.

It is hard to understand how a bank with such a distin-guished record can come to have backed so many failed entrepreneurs in the region in such a big way. Meanwhile, its troubles do not reflect particularly well on Sir Ron Brierley's investment skills. As an exthe bank for substantially more than it is now worth. He must be eternally grateful that he was turned down.

Spain to take peseta into EMS exchange rate mechanism

By Peter Bruce in Madrid

SPAIN yesterday announced plans to take the peseta into the exchange rate mechanism of the European Monetary System before July 1 next year, ending a long debate about the merits of full EMS integration.

The pledge, by Mr Carlos Solchaga, the Finance Minister, will enhance the credibility of the Spanish Government as it chairs a European Community summit later this month

aimed at boosting European monetary integration. Mr Solchaga said the dead-line was intended to coincide with the implementation of phase one of the timetable as napped out in the report of the committee on monetary union chaired by Mr Jacques Delors, European Commission presi-

monetary union to work, economic policies throughout the EC would need to be harmon-ised. He added: "The establishment of an economic area in which goods, services and capiabout such pressures on the exchange rate, that, without strong economic policy co-ordi-

WORLD WEATHER

in order to make it more diffi-cult for the Madrid Government to resort to purely mone-tary measures to combat rising inflation.

Mr Solchaga's announce-ment comes just days after the

Bank of Spain renewed calls for full membership of the EMS

Communist and allied parties who were each required to win 50 per cent plus one of the valid national vote to enter

Parliament. Mr Geremek said Solidarity stood by its word that 65 per cent of the seats in the Seim would be filled by the official side, implying that the authorities had the go-ahead to find a legal way of filling the remain-

Solidarity seeks new discussions Continued from Page 1

That, however, will not be

easy because the election rules provide no formula

'stretched' A-320

The version, which is expected to be formally launched in the autumn, will compete with Boeing's 757-200 medium range aircraft.

aircraft.

The A-321-100 will also fill a
gap in the Airbus aircraft
range and will provide the
group with a product that is in
great demand in the commercial aircraft market.

Airbus expects to win 40

Overall, Airbus expects that the stretched version will increase sales of the A-320 family by 300 to 400 aircraft to between 1,300 and 1,400 in the

bus expected to deliver 107 aircraft this year, compared with only 60 last year. Deliveries by the European consortium should increase to

transport aircraft. Euroflag will replace the Fima (Future International

He suggested that the European group wanted to keep its options open in the choice of a

ment identification system is to be supplied to the container industry in the UK and Western Europe by Ferranti International Engineering.

Precision hydraulics manufacturer, Mitchell Hydraulics, a division of Ferranti Instrumentation has gained MoD registration as a UK contractor to AQAP-1 Standards. and electronics concern to develop a family of anti-air-craft defence systems.

- ADVERTISEMENT -

SATELLITES A first in space

SONAR

New generation trainer

Ferranti Computer Systems fitting throughout the Royal has received a contract worth Navy's surface fleet. over £2m to supply an onboard trainer sub-system for vide high fidelity acoustic conuse with Sonar 2050. It will be tacts to stimulate the operamanufactured in Cheadle though fidelity acoustic conmanufactured in Cheadle though fidelity acoustic though fidelity acoustic conmanufactured in Cheadle though fidelity acoustic though fidelity acoustic though fidelity acoustic tonmanufactured in Cheadle though sonar processor. Conpany's Sonar Systems Divigraphics terminal it will incormanufactured in Cheadle
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LABEN SpA and Proel Tecnologie SpA, two Italian members of the Ferranti International group, have each announced successes in the joint ASI (Agenzia Spaziale Italiana)/NASA undertaking for the Tethered Satellite System First Mission (TSS-1).

Astronant Jeff Hoffman, (OBDH), LABEN has visited Proel Tecnologie in Florence for a course of familiarisation with the Electron gun' which will be the main constituent of the correction gun' which will be the main constituent of the carried on board and deployed by the NASA Space Shuttle, is scheduled for launch in January 1991.

The mission will use a conductive insulated tether to deploy the satellite 20km above the shuttle. As the conductive tether cuts through the Earth's magnetic field a voltage of up to 5kV will be electrodynamically induced The size, scope and diversity of Ferranti International will be clearly demonstrated by its presence at the Paris clearly demonstrated by its presence at the Paris Air Show which opens tomorrow. The company's exhibit covers seven operating groups representing manufacturing divisions from both sides of the Atlantic.

Display themes range from advanced avionics for fighter aircraft to tactical communications, air traffic control and surveillance radar; ordnance and terminally guided weapons; electro-optics, lasers and targeting systems; laser gyros, satellite stabilisation, thrusters and air breathing rocket propulsion systems. By Paul Betts in Paris That report urges full participation in the EMS by Britain, nation, this instability of the AIRBUS INDUSTRIE, the monthly rate of eight by next exchange rates will seriously damage the sustainability of Spain, Portugal and Greece -the only EC members which European airliner consortium. Suropean airliner consortium, is to develop a stretched version of its A-320 medium range, 150 seat, twin-jet aircraft.

Mr Henri Martre, chairman of Aerospatiale, the French partner in Airbus, confirmed A-320 production projected for the end of 1991 is 10 aircraft the economic union."

He added that all EC countries should become full EMS members before the Commishave held back from full membership — as an initial step towards integration.

Mr Solchaga, in a remark clearly aimed at Britain, said: a month. Aerospatiale also announced an industrial co-operation sion's directive on free capital movements is legally enforced. The Spanish minister said afterwards that Spain would agreement with several European partners to study a new yesterday that the consortium would develop a 180 to 200 seat "We firmly believe all EC members must join the military transport aircraft to aircraft to be called the A-321exchange rate mechanism of the EMS." negotiate a fluctuation hand of replace the Transall and Her-6 per cent against other EMS currencies for the peseta – as applies to the Italian lira cules transport aircraft. rocket propulsion systems.
Ferranti Defence Systems will be giving special emphasis to its capabilities for the European Fighter Aircraft and the Royal Air Force Tornado GR4 update. The minister added that for



With order books at unprecedentedly high levels, and with much new business continuing to flow in,

especially in commercial aircraft, the most significant single task ahead, says Michael Donne, is to raise the volume of production without sacrificing quality.

Optimism at new heights

industries go to the Paris Inter-national Air Show with order books fuller than ever before, and an optimistic view of business through to the end of the

The mood spans the entire spectrum of civil and military aircraft and engines, equip-ment (including avionics), missiles and spacecraft.

In military aviation, despite cuts in some defence budgets, there is still substantial spending on aircraft and associated weapons systems of all kinds, including tactical combat aircraft. Several important projects are under development, including the French Dassault Rafale and the Anglo-German-Italian-Spanish European Fighter Aircraft (EFA).

Other countries are making massive purchases of aircraft and associated weapons systems. One example is the recent Saudi Arabian weapons deal with the UK, Al Yamamah II, believed initially to be worth some £35bn, but ultimately perhaps as much as £150bn. It provides for eventual maintenance of the equipment in service over many years, including Tornado and Hawk fighters, Westland helicopters,

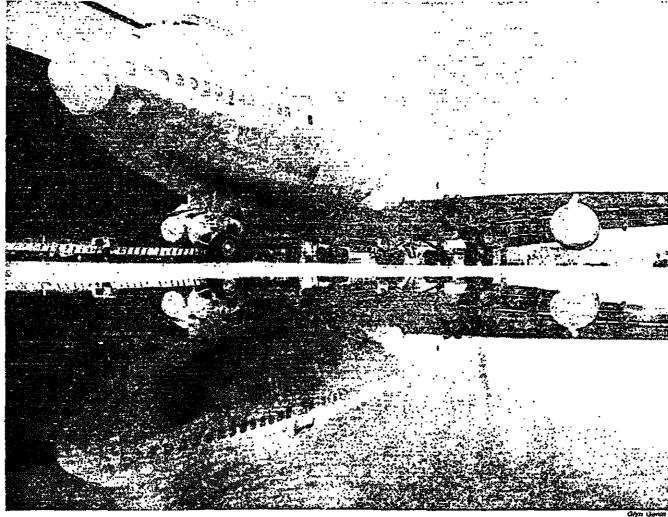
ystems. In the commercial aviation

sector, the continued high demand, which added more than 1,000 new jet airliners to the manufacturers' order books last year, has continued into the first half of the current year. It shows no signs of fall-ing off, as more and more air-lines replace their existing lines replace their existing fleets of "geriatric" jets and buy additional aircraft to cope with the anticipated growth of traffic through into the mid

One result of this is that Boeing, the world's biggest builder of jet airliners, has revised significantly upwards its forecast of demand for new airliners through to early next

Boeing now believes that, over the next 15 years, a total of 8,417 new jets, of all types from all manufacturers, will be added to the world fleet -worth about \$516bn, compared with its forecast of only a year ago of some 6,908 new jets, worth \$414bn.

Of the overall Bosing figure, a substantial element will be accounted for by the replace ment of existing ageing and fuel-inefficient fleets; but by



far the greatest part of the \$516bn will represent aircraft purchases to meet traffic

growth.

This forecast is broadly in tine with those of other major jet airliner manufacturers; and, as a result, they are all either planning to increase, or are already increasing, their pro-duction rates to meet the

expected demand.

There is continued interest in the development of new air-liners for the long-term future. Major new ventures now under development for entry into ser-vice in the early 1990s include the European A-330 twin-en-gined wide-bodied short-to-medium range jet airliner, and its long-range four-engined stablemate, the A.340, both using a common wing and many common systems and equipment.

In the US, McDonnell Douglas is well advanced in develop-ing its new medium-to-long

PART ONE Airbus and McDonnell Doug-las, are already also thinking of even bigger derivatives of

their A-330 medium-range,

A-340 long-range and MD-11

medium-to-long range airliners, even before any of the

existing models have entered

In the zero-engine field, the

manufacturers are already moving to meet that potential

demand, and the era of the 65,000 lbs thrust engine has

already emerged, with the prospect of thrusts of 80,000 lbs eventually attainable.

is a slow but increasing interest in the development of the

revolutionary fuel-efficient "prop-fan" or "unducted fan" engines, and it seems likely

But at the same time, there

range tri-jet, the MD-11, which will be extended into a "famwill be extended into a "family" of airliners for a wide range of tasks. But it is likely that even bigger derivatives of these aircraft will emerge before the end of the century, to meet the growing airline pressures for greater passenger capacities in the face of increasing airport and air-traffic control congestion.

The day of the 500-plus seater Boeing 747 Jumbo jet, for

ter Boeing 747 Jumbo jet, for example, is thus a real possibility - Boeing is confident that, given adequate airline demand, it could build such an aircraft, with a new wing design and accompanied by the higherthrust engines already emerg-

that much more will be heard of these ventures through the decade ahead. McDonnell Douglas is now

developing its ideas for the MD-90 series of prop-fan powered airliners, and is canvass-ing for orders worldwide, although so far no airline has taken the plunge. But it seems likely that, before the end of this year, some airlines, especially in the US, will decide that the risk is worth taking.

While the world aerospace

industry is undergoing this considerable expansion, how-ever, it is also facing some serious problems. Many of these stem from continued weakness of the dollar, which puts pres-sure on those companies based outside the US (such as British Aerospace and Rolls-Royce), whose manufacturing costs are based on other currencies but

PART CNE

Military aircraft; Missik

The UK

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Soviet Union; Ja

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Air transport; Susiness eviation 8 New materials and docient The perospacoplane: A second generation supersonic jet

PART TWO

Swedon; Spain; Italy

The Netherlands; Israel Argentina; Brazil Australia; South Africa

To some extent, these pressures can be relieved by a relentless drive to improve productive efficiency and bring down manufacturing costs, through the introduction of new techniques and new materials, especially at a time when technology itself is pushing its frontiers farther out into hith-

Such restructuring operations, to get costs down further, will be essential to the success of the aerospace industry in the 1990s. In the US, aerospace companies have already achieved savings in this way of 20 to 25 per cent of

The sources of such savings include: accurate product designs and reduced engineering activities; reduced tooling costs, and fewer start-up proce-dures for new products; better application of advanced technologies in materials and man-ufacturing techniques; improved responsiveness to market change; fewer disrup-tions; improved productivity; and reduced shortages of parts

from suppliers.

Over recent years, both British Aerospace and Rolls-Royce have achieved considerable reductions in their manufacturing and inventory costs. Rolls-Royce, for example, says it has now achieved the "12it has now achieved the months engine" - meaning that, whereas a few years ago it took 18 months to build an engine, today it can be done in

To some extent, this problem of the rising costs of new ventures has already been met by the growth of international collaboration. While, in general terms, this can be expected to result in wider markets and reduced cost-burdens on indi-vidual companies, the fact is that some groups have yet to deliver the cost-savings origi-

nally hoped for.

The European Airbus Industrie consortium is an example. Although, in recent weeks, it has scored a series of spectacu-

kets, with big orders for its new A-330 twin-jet from Trans World Airlines of the US and Cathay Pacific of Hong Kong, it has been criticised by its member-governments over its lack of financial accountability. As a result, the group's top management has recently been restructured, to improve finan-cial control; and it is hoped that this will eventually result in profitability.

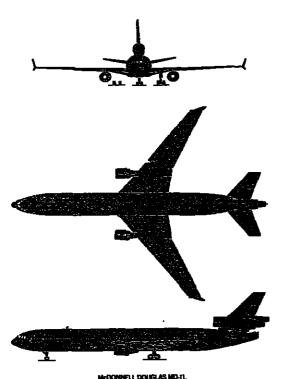
But, as well as generating international collaboration, these same pressures are resulting in an intensification of competition across the whole spectrum of activities in civil and military airframes and engines, avionics and other equipment, as well as in spacecraft - as individual companies or consortia seek to expand their market shares.

But dominating the entire aerospace industry is the thought of what is likely to happen after the end of 1992, when the Single Market is due to become effective throughout the European Community.

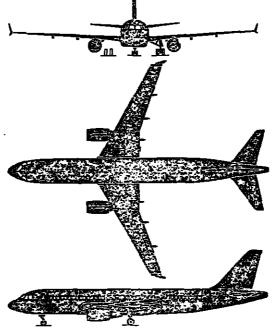
Some observers in the US industry have voiced the fear that the single market may generate a feeling of protec-tionism throughout the Euro-

pean industry.
Mr Frank Shrontz, president of Boeing, indicated this concern at a meeting in Brussels when he suggested that "the American impression is that there is a growing attitude in Europe to buy European wherever possible, if necessary at a

premium." This view, however, has been rejected equally vigor-ously by Sir Raymond Lygo, chief executive of British Aerospace. He has stressed that, while there is undoubtedly competition for defence orders, with too many companies chasing too few orders, it is too much of an international two-way street, with so many international collaborative ventures either in place or pro-grammed, for any kind of "fortress Europe" situation to





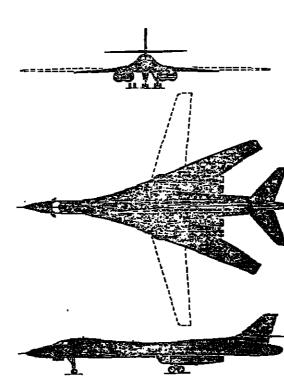




MESTI AND AGUSTA EHIOL



BOENG 737-300.



ROCKWELL B 18 BOMBER

Westland.

Introducing a few of our high-flying customers.

Over the years Westland have contributed to many of the

world's leading aircraft designs. You will find our composites providing flight-critical components for the McDonnell Douglas MD-II, as well as forming primary composite structures for the wing panels on the

We're also responsible for the automatic wing-sweep activators for the Panavia Tornado fighter, and a unique on-board oxygen generating system for the Rockwell B-IB bomber.

In fact, our 25 years' experience in space technology has enabled us to develop the only British space launch vehicle to put a satellite into orbit.

However, we also lend our brains to projects that never get off the ground.

These include valves and life support systems for nuclear submarines, and pipelines for North Sea Oil.

None of this, we might add, has distracted us from our pioneering work on helicopters.

While the Westland Lynx holds the World Helicopter Speed Record, the EHIOI now sets new standards in helicopter safety, performance and endurance.

Not surprisingly, we have recently taken important orders (for a diverse range of products and services) from the United States, Canada, the Far East, the Middle East and

the United Kingdom. But it's not just our designing and manufacturing ability that brings us business, it's also our attention to quality control and customer support.

At the Paris Airshow you'll have an opportunity to come and pick our brains.

You'll see us on stand E19, Hall I.

WESTLAND GROUP PLC, YEOVIL, SOMERSET, ENGLAND. (TEL 0935 75222)

MANUFACTURERS of jet and turbo-propeller airliners all over the world are busier than ever as a result of a flood of orders in recent months, and all are either already increasing production rates or are expected to do so to meet unprecedented demand.

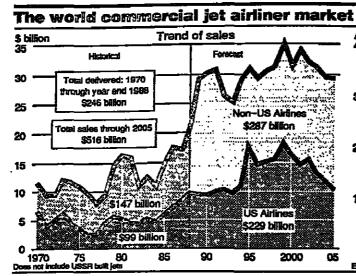
Last year, more than 1,000 new jet airliners were ordered by the world's airlines, at a cost of \$47.47bn (£27.8bn), in addition to several hundred new turbo-propeller types -the highest annual inflow of new orders ever recorded, and well above the previous year's level of 726 new jets worth

The main reason was the big increase in world passenger traffic over recent years, to nearly 1.1bn on scheduled services alone in 1988. Although that was only some 4 per cent more than in the previous year, it masked the fact that in some regions of the world, such as the Far East and south-east Asia, the growth was around 20 per cent, and that in other areas, such as western Europe, it was running at more than 10 per cent. Although such high rates are

expected to slacken a little in the near future, overall air traffic growth is expected to continue, according to most observers, at a rate of between five and seven per cent a year through the 1990s, with the result that world scheduled air passenger numbers will double to more than 2bn a year by the

THE AIRLINER MARKET: more passenger traffic is good for order-books, reports Michael Donne

Replacements help the spree take off



Available seat-miles (billions) Market distribution 4000 \$420 billion Backlog plus retai

demand for bigger aircraft that

demand for higger aircraft that can carry more passengers per flight is now increasing.

All these factors have led Boeing, the world's biggest manufacturer of jet airliners, substantially to increase its forecasts of world jet deliveries to be pear 2005.

1989 Regional sales -3.3% —<u>Latin</u> America... 3.9% - 3.5% --- Africa---- 2.3% -5.1%-Middle East-2.7% 24.7% ---- EUTODO-1989~2005 1970~1988 \$516 billion \$246 billion

continue to be relatively sta-ble, and that there will be no economic recession for the

resecable future. About 70 per cent of all the

nticipated new aircraft will be

Many designers now

believe the 600-plus

seater will be built

bought to meet the growth in

further non-stop than in the In western Europe, for exam-ple, Airbus Industrie is now well into the development of its short-to-medium range 300-plus seat A-330 airliner, along ell into the development of

with its partner, the four-en-gined long-range A-340, both of which are due to enter service in the early 1990s.

In the US, as a direct challenge to the Boeing monopoly of the long-range jet market in the shape of the Jumbo 747-400, McDonnell Douglas is develop-

traffic, says Boeing, while most of the rest — that is, apart from a small number to meet ing its new three-engined MD-11 airliner. cargo growth needs - will be to meet the replacement mar-At the lower end of the market, however, despite the pres-sures for larger airliners of 200 seats and upwards by some air-Most other manufacturers broadly share the Boeing view,

lines, which is bringing signifi-cantly increased sales to Boe-ing with the twin-engined 757 and as a result, like Boeing are putting up production rates to meet the immediate and the bigger 767, there also continues to be a strong At the same time, several are developing airliners that will not only be able to carry more passengers but also carry them demand for aircraft in the broad 100 to 150 seater market, with such types as the Airbus

146-300, the Boeing 737 family of jets and the McDonnell Douglas MD-80 series all doing

A-320, the British Aerospa

While some of these – the A330, MD-11 and 747-460, for example – are bigger than any airliners yet seen, the likelibood of air traffic congestion generating a demand for even bigger aircraft is coming

Many designers now believe that eventually the 600-plus seater airliner, at one time considered fantasy, will be pro-

duced. The technology to build them is already available, and the engine manufacturers are already talking of engines capable of 80,000 lbs of thrust with which to get them off the ground. All that is required is sufficient demand from the airlines to encourage the manufacturers to launch them.

At the same time, however, there is still considerable presers, notably McDonnell Doug-las, to see a new era of short-range jet airliners emerging powered by the revolutionary new "prop-fan" engines, which offer substantial savings in fuel consumption over jet engines, whilst driving the air-

craft at near jet speeds.

McDonnell Douglas is continuing its research into the MD-91 and 92 series of twin-en-gined airliners using prop-fan engines, in conjunction with General Electric/Snecma and Pratt & Whitney/Allison, and is offering the airlines such short-to-medium range aircraft for the mid-1990s and beyond.

So far, no airlines have picked up such offers, but interest is steadily growing, and the first orders for such new types may be closer than many believe. The forthcoming Paris Air Show will offer McDonnell Douglas and the engine builders a major opportunity to update the world's aerospace community and the world's zirlines on where those

tributor to the demand for new jets has been the emergence of the long-awaited "replacement" buying spree among many of the world's airlines. Many airlines, influenced by the stability of aviation fuel prices, had been keeping many of the older types of jets flying – such as early Boeing 727s and 737s, British One-Elevens and McDonnell Douglas DC-9s.

But another important con-

ing those aircraft, however, been the increasing desire by many airlines to move into larger aircraft, so as to cope together with the increasingly stringent environmental regu-lations against aircraft noise, especially in North America and Western Europe, together with the emergence in recent months of growing public con-cern about the safety of some of those older models, has stimulated the airlines to start replacing them.
Yet another factor behind

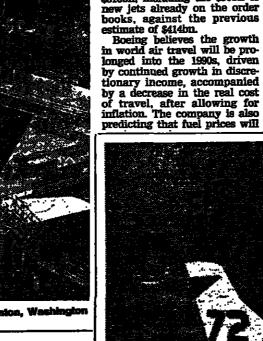
with growing congestion at air-ports and along the air routes. In many parts of the world, but especially in North Amer-ica and western Europe, such

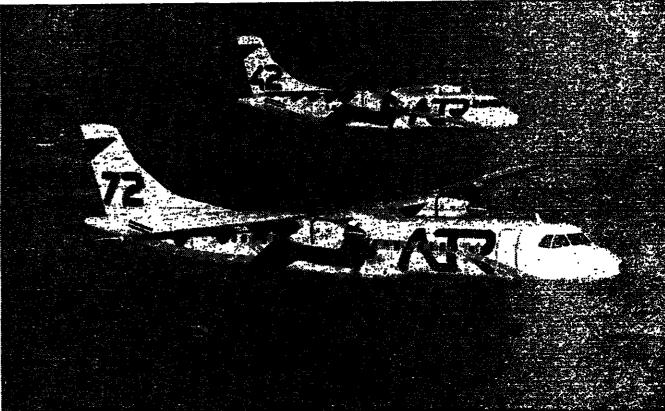
congestion is now a serious and growing problem, leading to long delays during peak periods at major hub airports. Airport take-off "slots" have become precious, and the

forecasts of world jet deriveries up to the year 2005.

Boeing is now forecasting that over that 15-year period, a total of 8,417 jet airliners of all types from all manufacturers will be delivered, instead of the 6,908 it was forecasting a year ago, an increase of 1,509. The value of these aircraft is put at the upsurge in demand has value of these aircraft is put at \$516bn, including the \$96bn of

mand for siriliners of 200 seats and upward is increasing sale of Boeing 757s, seen being assembled at Renton, Washingto





The ATR-42 has between 46 and 50 seats. The ATR-72 stretched version, which first flew last October, can take up to 74

REGIONAL BUILDERS

Small bodies, large orders 340, the Embraer EMB-120 and the Dornier Do-328. The 40-60 seat category includes the Saab 2000, de Havilland Canada Dash 8-300, smaller aircraft at many major airports, there is still room for a substantial volume of such commuter and regional style

WHILE hig orders for large, wide-bodied jet airliners con-tinue to make the headlines, with many airlines seeking bigger aircraft to help combat the problems of airport and air route congestion, there remains a large and growing market for smaller airliners, for the myriad short-haul routes that are developing

For the fact is that, whilst air traffic congestion may be serious in the major countries of Western Europe and in the US, threatening the expansion of regional air transport operations at some major airports, there are still many parts of the world where there is still plenty of room for con-tinued air transport growth, and where smaller aircraft that are cheap to buy and fly are in considerable demand.

This is especially the case in many of the under-developed regions of the world — Latin America, Central America, Africa, the Middle East, and large parts of the Far East and South-East Asia.

In those areas, air transport is essentially based not upon the Jumbo jet or the Airbus, but upon the vast array of smaller, twin-engined turbopropeller types of aircraft, spe-cifically designed for the short-haul regional air trravel market, seating anything from a dozen up to 100 passengers at a time,

These are mostly turbo-propeller types (for quiet and low-cost operation). In the 19seater category there are the British Aerospace Jetstream 31, US Beech 1900, West German Dornier Do-228, US Fairchild Metro and Brazilian Kmhraer/Fama CBA-123. In the 30-40 seater category there are the de Havilland Canada Dash 8-100, the British

Aerospace four-engined Type 146 available in three versions As a result, all the major manufacturers remain confifrom about 80 to 112 seats, and

Dutch Fokker 50 and the Fran-

co-Italian Avions de Transport Regional ATR-42.

In the 30-100 seat category there are the ATR-72 and the British Aerospace Advanced

Turbo-prop (ATP).
All these are turbo-propeller

powered, but there are two types of jet airliner also in the

regional market – the British

All the major manufacturers remain confident that their aircraft will be in demand, and are geared to high production through the 1990s

ing between 97 and 119 pasigers a time. The manufacturers of all these aircraft last year recorded strong growth, with

orders for over 600 aircraft added to the books, and at least another 60 on option. After allowing for deliveries, the backlog of outstanding orders at the end of the year amounted to some 860 aircraft. While some of these were sold for corporate business and executive use, the majority of them were bought by small airlines building up their local service and commuter-tyupe operations, either linking small communities directly or serving as links between smaller communities and larger "hub" airports.

These types of operation are expected to continue. Even in the air transport-saturated arees of Western Europe and said that it intended to go the US, where congestion has lead to pressures against its New Regional Jet airliner

ports.
Furthermore, in the 1990s, as the effects of greater air transport de-regulation and liberalisation begin to be felt throughout the European Community (with an inevitable overspill into the countries outside the Community), the volume of intra-regional traf-

olume of intra-regional traf-

fic will grow, air traffic con-gestion notwithstanding.

dent that their aircraft will be in demand, and they are geared to continued high pro-duction through the 1990s. This confidence is illus-trated by the interest being shown in the possibility of developing jet-powered regional airliners by two major manufacturers, Short Brothers of the UK and the Canadian company, Canadair, which is owned by a bigger transport vehicle conglomerate, Bombardier (the other major Canadian manufacturer is de Havilland Aircraft, owned by Boeing of the US).

This would be a quantum jump that could have far-reaching effects on all the manufacturers who have so far concentrated solely upon turbo propeller types

Bombardier, the Canadian transport conglomerate which now owns Canadair, recently (NRJ), a \$231m (£134m) project for a 50-passenger twin-engined short-to-medium range aircraft essentially for

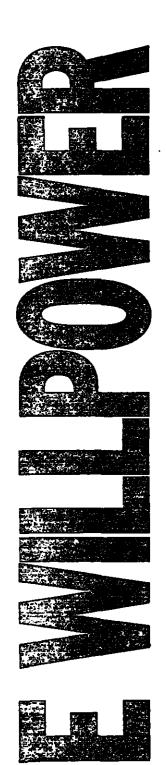
regional airliner markets. Bombardier says it has already logged firm orders for 56 aircraft with options on at least another six, enough to justify the start-up decision. The company foresees a mar-ket for up to 1,000 of such aircraft through the next decade or so. The NRJ, costing between US \$14m and 15m a time, will have a range of 1,700 miles, a speed of 530mph and US engines, with first deliveries due in the second quarter of 1992.

This aircraft will be competing with the projected Short Brothers FJX, also a short-tobrothers Foa, also a more-unedium range 50-seat twin-en-gined jet, now being designed and discussed with operators world-wide, but with so far no formal commitment to develop

The big outstanding question is what will happen to these ventures if Bombardier succeeds in its current bid to buy Short Brothers, which has been put up for sale by the UK Government. Clearly there can be no

question of both new aircraft being developed by one organisation. The general belief is that if Bombardier gains Short Brothers, the FJX would be shelved, if not cancelled, with the best elements of it being incorporated into the NRJ, and with a considerable part of the Short Brothers design team being brought into the Canadian venture. In such a way, the aircraft development side of Short Brothers would be retained, and there would be a clear field for the NRJ to domi-nate world markets for small regional jet airliners.

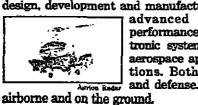
Michael Donne





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THE BRAINPOWER. THE WILLPOWER. THE WINPOWER.

Michael Donne finds the engine market working at full-throttle

Congestion fuels demand

IN COMMON with the sirframe A multi-billion dollar contract manufacturers, the major world aero-engine builders are trying to expand production to meet increasing demand from the world's sirlines for new air-

Although manufacturers' estimates vary between \$50bn and \$75bn for the market in new commercial aero-engines between now and the end of the century, all agree it will be

Pratt & Whitney of the US, for example, estimates that between now and 1998, the market will amount to some new aircraft, or some 13,000

It estimates that of those engines, about 32 per cent by value will be for engines under 30,000 lbs thrust, for such short-to-medium range aircraft as Boeing 737s, McDonnell Douglas MD-80 series and Airbus A-820s, together with deriv-

About 14 per cent will be in the 30,000 to 45,000 lbs thrust category for such medium to

category for such medium-to-long range aircraft as the Boe-ing 757, and the Airbus A-340.

The remaining 54 per cent will be in the expensive "very high thrust" category of engines of over 45,000 lbs thrust, covering such aircraft as the Boeing 747 Jumbo, the 767 twin-jet, the McDonnell Douglas MD-11 long-range tri-jet airliner, and such medium-range aircraft as the new high-density seater Airbus A-330

Rolls-Royce's estimate of the world commercial engine market is rather higher, at about \$85 in through to the year 2003, but it broadly agrees with the Pratt & Whitney view that in terms of value the most lucra-

thrust engines.
But whatever the type or size of aircraft, there is an increasing demand for reliable, fuel-efficient engines which are environmentally acceptable in terms of noise and pollution.

As a result, the engine builders' own production lines are being accelerated, and the search for improvements in performance with lower devel-

opment and production costs is intensifying.

This is largely due to the keen competition that is devel-oping between the major

for an airframe and engine can be won or lost on just a fraction of one per cent difference in engine operating costs, which can add up to millions of dollars throughout the life-

time of an engine.

This is especially so at the big thrust" end of the world market for aero-engines, where power ratings are being pushed higher and higher to meet the mands for bigger aircraft, to enable them in turn to cope with rising passenger and cargo traffic as well as with increasing congestion at air-

Even as recently as the early to mid-1980s, the possibility that engines of thrusts in excess of 60,000 lbs would be required had been considered milkely. But the situation has

development cost, but now considers it will be able to cover the costs from its own resources and from risk and Kawasaki Heavy Industries

share in the RB-211-524 engine.
But it can only be a matter of time before General Electric, with the CF6-80C2, and Pratt & Whitney with its PW-4000 series, catch up, and already the battle for sales has begun.

Whatever the type or size of aircraft, there is an increasing demand for reliable, fuel-efficient engines which are environmentally acceptable in terms of noise and pollution

changed dramatically as a ing and Douglas, as well as result of the increased conges with many other airlines, are result of the increased congestion, especially at peak periods.

The congestion is likely to remain for the forseeable future, but it has already gen-erated a demand for engines in the 65,000-plus thrust class, with the capability of going further to as much as 70,000

But Rolls-Royce, for example, which currently has about 20 per cent of the world market for civil jet engines and believes that a share of 30 per cent is within its grasp in the cent is within its grasp in the next few years, suggests that the end is not yet in sight, and that thrusts of 75,000 lbs are inevitable, with the possibility of going to 80,000 lbs.

Rolls-Royce's own latest high-thrust derivative of the

RB-211-524 engine, the model I., could be taken up to 80,000 lbs thrust if needed. So far, Rolls-Royce appears to be in front of its rivals with

this version of the RB-211-524, which, together with the H model of the engine at a slightly lower thrust, it is developing from its own financial resources.

revenue sharing pariners, including such Japanese aero-engine companies as and Ishikawajima-Harima Heavy Industries, which together have a 10 per cent

with Rolls-Royce winning launch orders for the L engine from Air Europe in a fleet of McDonnell Douglas MD-11 trijets, and in A-330s for Cathay Pacific Airways of Hong Kong. Negotiations with Airbus, Boe-

expected to result in further orders for the L engine soon. orders for the L engine soon. Primarily, engines of this size are required to power the new, higher-weight aircraft now under development, such as the Airbus A-330 and McDonneil Douglas MD-11 three-engined long-range air-liner, both due for delivery in the early 1990s, as well as possible future versions of the Bosing 747 Jumbo jet beyond the current Series 400 model.

Because of the pressures on

Because of the pressures on airports and air traffic control facilities, as air traffic overall continues to expand, and because also of the growing demand for non-stop long-distance air travel, it seems likely that "stretched" versions of all these and other types of aircraft will emerge in the years ahead, requiring the higger-thrust engines.
Some observers believe the

eventual development of 500-600 seater A-330s, MD-11s or 747s is not only possible, but probable, driving the engine builders to even higher thrusts to lift such monsters off the oping between the major originally, the company had ground, whilst maintaining engine manufacturers for a splied to the UK Government lower fuel consumption and share of the growing markets.

however, all the major manufacturers are looking even fur-ther ahead, with ideas for new types of engines, such as "unducted" or "unducted fans"

that will be capable of improv-ing thrusts, saving on fuel and further reducing noise and atmospheric pollution. The most recent develop-ments in this field have come from General Electric of the US and a joint venture by Pratt & Whitney and Allison Division of General Motors, also of the "JIS, with what are called "propfams", in which the gases generated are used to drive "propulsors", which look more like ships' screws than the con-ventional propellers of today, in what are called "unducted

fan" engines.
The results are engines giving near-jet speeds with savings in fuel consumption savings in rue: consumption varying between 25 and 40 per cent when compared with the current generations of turbo-fan jet engines.

How long it will take before such power-plants are devel-oped in quantity depends pri-marily upon the trend in fuel prices. If prices remain stable, there will be little incentive for engine manufacturers to spend vast sums on developing such new power-plants, or for air-times to buy them. A signifi-cant jump in fuel costs, for whatever reason, however, would lead to accelerated development of these new

Looking even further ahead. Rolls-Royce believes current advances in aero engine tech-nology could make it possible to develop a successor to the Concorde supersonic airliner that will be fully competitive with subsonic aircraft over long distances.
The company is conducting

studies into such propulsion systems. Improvements in mance and composite materi-als in the 20 years since the original Concorde's Olympus 593 engines were developed, taking place, including the extensive use of ceramics, could result in an engine far more efficient than the Olympus - probably a "variable cycle" engine that could be adjusted to provide quiet takeoff and economic operation at both subsonic and supersonic speeds.

FOR NO very obvious reason, British media and politicians have been raking over the coals of the Westland affair of

three years ago.
The interesting question, in retrospect, apart from the cir-cumstances in which two Cabinet ministers resigned, is what the affair really amounted to.

If the problem was about over-capacity and the over-supply of helicopter companies in Europe, nothing has changed Europe still has four helicopter manufacturers

heiicopter manufacturers (Westland, Messerschmitt-Böl-kow-Blohm, Aerospatiale and Agusta) facing up to four in the US (Sikarsky, Boeing Heli-copters, Bell Helicopter Tex-tron, and McDonnell Dougias). More than that, another two European companies – Fok-ker, of the Netherlands, and Casa, of Spain – are trying to get their foot in the door. If it was about the choice of Westland falling into US or European hands, neither hap-pened. United Technologies of

the US, parent of Sikorsky, took its stake, but Westland did not become a parlah in Europe; anyway, GKN of the UK has since stepped in as the dominant shareholder. And the nearest thing to a saviour was Saudi Arabia, which last year became the first customer for Westland's Sikorsky-licensed Black Hawk assault transport helicopter, helping to remedy a lean order patch. And if it was about the structure of Westland, it is (although a respected manager from Plessey, Mr Alan Jones, has just been parachuted in as chief executive) much the

same. As one senior civil ser-vant commented: "If it was a good and brilliant structure, they would not have got into trouble, would they?"

An alliance of one kind or another still seems to be the only logical way forward, but Europe has a confusion of alli-ances. It is 11 years since the UK, West Germany, France and Italy agreed to co-operate in helicopters. All are co-operating, but not necessarily with each other. In the UK's case,

following a recent history of collaboration with France, the only active link now amon-the other three is with Italy. France's state-owned Aérospatiale, which has been suc-cessful with its Ecureuil, Dauphin and Super Pumaaircraft, wants to link this side of its business with MBB'sin order to compete on more level foot-ing with Sikorksy and Bell, and is anxious to draw Westland into Franco-German col-

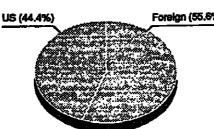
HELICOPTERS: what was Westland all about?

An alliance is logical

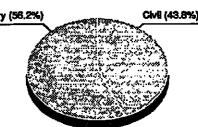
World helicopter deliveries

Ten-year composite forecast (1988-1997): 11,700 aircraft

Foreign v United States



Civil v Military



notoriously hard furrow to plough. An estimated 44 per cent of the world market is in the US. The civil side is volatile, heavily dependent on the offshore oil market. It may now be improving, especially with higher oil prices; Westland is hopeful of North Sea orders for the Angio-Italian EH101 utility helicopter. But demand for corporate uses

The military side accounts for more than half the busi-ness, but demand there is cyclical and uncertain in tim-ing. The helicopter is a victim of its own robusiness; it does at its own rousiness; it does not suffer from the same fatigue as a high-performance fighter; its replacement can easily be put back.

The most dramatic setback this year has been the announced cancellation by Washington of funds for the

Washington of funds for the V-22 Osprey tilt-rotor project for the US Navy, an aircraft that takes off like a helicopter and swivels its rotors to fly

like a turboprop.

However, it seems probable that the Bell/Boeing joint veuture will be kept alive, at least with a trickle of development funds. The US Navy wants it to transport marines, and it seems unlikely that the US will vacate this revolutionary area of technology. A five-na-tion European team is study-ing a smaller civil tilt-rotor for the next century - the Euro-pean Future Advanced Rotor-

pean ruture Advanced Rotor-craft, or Eurofar, involving the four main producers and Casa of Spain – and is looking into possible military uses. Decisions on UK military programmes are being held back as thinking evolves about laboration on battlefield heli-copters.

The helicopter business is a Lt Gen Sir David Rams-

botham, commander of the UK Field Army, admitted on an exercise a few months ago:
The Soviets are shead of us in their concepts for, and employ-ment of, helicopters, having acted while we have been thinking."
The UK pulled out in 1987

from the European NH-90 utility helicopter, preferring the idea of using the larger Anglo-Italian EH101 for the troop transport role. The three-engined EH101, a West-land/Agusta joint venture, is a combined naval, military and commercial programme.

The Ministry of Defence ear-marked £1.6bn for the first 50 anti-submarine units for the Navy, but has been holding back production funds. For the BAF troop-carrying role, it has been having second thoughts about the EH101's suitability, about the EHHOT'S suitability,
possibly reconsidering the
prospect of a UK requirement
for the Black Hawk, and perhaps also regretting its decision on the NH-90.

As for battlefield helicop-

As for battlefield helicop-ters, Britain, Italy, the Nether-lands and Spain reached agree-ment in March, after some delay, to go ahead with a cost-definition study on the pro-posed Light Attack Helicopter, a beefed-up version of Agus-ta's A-129 Mangusta. But the project remains in some doubt. Both the Dutch and the Brit-

Both the Dutch and the British are tempted by McDonnell Douglas's AH-64 Apache, which Westland would be in a position to assemble in the OK. British officials say they are still considering the Fran-co-German PAH-2 project, for which the French would gladly which the French would glastly have Westland on board, as well. The UK is also taking a close look at the US LHX light attack and reconnaissance

The \$35ba LHX programme has been preserved intact in the US defence budget, at the expense of other helicopter programment and upgrading plant. A McDannell Denglar, Bell team is vying with Boeing/Sikorsky for full-scale development of the helicopter. due to complement the Apache and replace more than 3,000 "tactically obsolete" units in the US fleet.

Overall, small helicopters of under 15,000lb maximum gross weight are reckoned to make up more than two thirds of the potential military and civil market. McDonnell Douglas appears confident about the prospects for two light helicopters incorporating an anti-torque system, using air streams, that avoids the need for a tall rotor. This Notar sys-tem is claimed to make helicopters not only quieter but also safer and easier to fly. The first application of this is a new variant of the widely-sold MD520, a five-place, single engined model due to fly towards the end of the year. A development of what was originally an Army helicopter company, the OH-6 Cayuse, it may find a military as well as

A wholly new eight-place commercial helicopter, the MDX, using the same system, is due to fly in 1992. Hawker de Havilland, of Australia, became a partner in the programme in February. Like the new MD520N, the MDX is expected to have sales of some 800-1,000 over the next 15 years. It is described by the manufacturers as the first new commercial helicopter commit-ted to production this decade.

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IT MUST be with some embarrassment that President François Mitterrand remembers the air show he opened at Le Bourget just after he was elected for his first term of

Socialist Government, deciding that the plunge had already

been taken, recently gave the go-ahead for a naval prototype as well. Also contending for

the new generation of multi-

role fighters is the Hornet 2000, the planned upgraded version

of the McDonnell Douglas F/

A-18. The US company cam-

paigned strongly for a Euro-

pean partnership as an alterna-

What would have been the other prime competitor, the

Agile Falcon, successor to General Dynamics' F-16, was shot

down by the latest proposed

cuts in the US budget, but its

death might not be permanent

The Netherlands, Denmark

and Norway were committed

in principle to joining the pro-

gramme, while Belglum, which

was with them in co-producing

the F-16 in the 1970s, was still

Larger-winged and higher-

powered than the F-16, geared primarily to the air superiority

role, the aircraft was due for

production from 1994-95. The US Air Force is confident, how-

ever, that its needs will be met the Advanced Tactical

The ATF, a replacement for the McDonnell Douglas F-15

With 770 delivered, the

Tornado has assured

sales of 1,000

from the mid-1990s, is a two-pronged programme, with pro-totypes built by Lockheed and

Northrop expected to fly early next year. Selection for

full-scale development is expec-ted in mid-1991.

Besides the 700-aircraft, \$64bn USAF programme, the US Navy is also evaluating the

tive to the EFA.

dithering.

Fighter (ATF).

office, eight years ago. For his visit, all the visible weaponry on military aircraft had to be covered up or removed. Then, at further cost, it was all restored to public

No such squeamishness is in evidence these days. European and US manufacturers are shaping up for a flerce competition in export markets for the next generation of fighter air-craft. France, with a sales record that has lost much its former brilliance over the last few years, is in there with the rest, at a cost that bears witness to the difficulty, for any country but a superpower, of going it alone

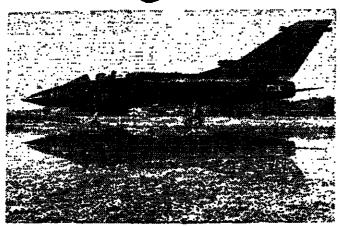
The price of solo efforts in high-performance combat aircraft has become exorbitant. Israel found that out when it was forced to cancel its Lavi project two years ago after some \$1.9bn had been spent. Sweden has been finding it out, too, with its multi-role JAS-39 Gripen, a \$6.5bn programme dogged by delays and rising costs. The first prototype of this light fly-by-wire fighter flew in December after about 18 months of holdups, and then

crashed in February. Like its European rivals, the project relies heavily on export hopes from the mid-1990s

The five European countries which originally decided to pool their efforts into one project are pressing ahead instead with two, as a result of France's divorce from the others four years ago: the Anglo-German-Italian Spanish-European Fighter Aircraft (EFA), projected at some \$36bn (£22bn), and the Dassault-Bréguet Rafale, which it is reckoned could eventually cost a

similar sum. The twin-engined, single-sea Rafale is designed as a highly manoeuvrable and versatile fighter not much bigger than the Mirage 2000. The French MILITARY AIRCRAFT: David White on the growing competition

Going solo costs too much



although the Spanish took another six months before formally jumping on board. Although the French have talked of finding common ground between the EFA and the Rafale, to share costs, it now appears too late for major bridges to be made between the two projects.

The first German EFA proto-

type is scheduled to fly in 1991, and the aircraft is due in service in 1996. After a nasty row Bonn appears ready to accept a new Ferranti-designed radar – on a project that already combines new airframe, new engine and new weapons - rather than an AEG-Marconi proposal based on proven tech-nology from Hughes of the US. Failure to settle this key deci-sion this summer would risk slippage in the whole pro-

ATF to replace Grumman F-14 Tomcats, against an advanced Tomcat and the Hornet 2000. The pariners' confidence in the project is grounded on the-This is on top of its A-12 carrier-borne Advanced Tactical Tornado. It involves the same participants in the main air-frame and engine consortia, plus the Spanish. The two Aircraft programme, a General Dynamics-McDonnell Douglas joint venture to replace the prime-contractor companies. Grumman A-6 Intruder.
The four-nation RFA went anavia and Eurofighter, and their respective management

building in Munich, if not always in happy cohabitation. Panavia, the first company to be given full responsibility for a joint aircraft project, has 20 years' experience, managing a sophisticated accounting and

ork-allocation system. With more than 770 aircraft delivered, the Tornado has assured sales of more than 1,000. The company hopes to keep supplying the aircraft up to 1996 and possibly, with new versions, to the end of the century. The problem for the partners is how to dovetail the Tornado with the EFA, avoiding either a hole in production or a peak workload.

As an export product, the Tornado, in its low-level pene-tration and air-defence versions, is either a success or not, depending on your view-point. It forms the backbone of the UK's £15bn defence agree-ment with Saudi Arabia, and the choice of Tornado by Malaysia is the first of several potential Asian orders, including Indonesia. But there is no export outlet in Europe, and in the Middle East both Oman and Jordan have shelved their instead for British Aerospace nology - aero-engines, aerodynamics, some electronic sen-sors. But in others the US lead Hawk trainer/fighters. Differences about export polappears to be absolute, among

them stealth technology.

The existence of the Lockeed F-117A radar-evading

fighter was finally admitted

last year, with more than 50

icy have proved one of the main drawbacks of collaboration. Hold-ups in arranging finance for the Jordan sale, for which Bonn was unwilling to provide state backing, may be held partly responsible for the deal's failure. France's sale of Mirage 2000s to the same customer, by contrast, was already tied up. The Tornado is now in the

competition for a US defencesuppression aircraft to replace the F-4G. That would bring a US-made version, based on the electronic combat and reconnaissance Tornado developed for the German and Italian air

Following successful collaboration on the Harrier, studies are being funded by the US and UK governments on a supersonic Advanced Short Take-Off/Vertical Landing fighter for the next century.

The RAF's new GR5 version of the Harrier, a RAe-McDonnell Douglas joint venture, dif-fering only in details from the US AV-8B, suffered a six-month delay after an accident in late 1987, but the first squadron is now due to become operational this autumn. Basically a bomber, with the role of attacking enemy follow-on forces before they get to the battlefield, the aircraft has double the range of its GR3 predecessor, can take much more weight and is both more agile and, according to pilots,

easier to fly.

The initial GR5s will be upgraded to the next GR7 ver-sion, with night operational capability. It is hoped the new Harriers, less limited in their weapons, will sell better

Europe can still claim to hold its own, or better, in some

taken more publicly out its closet in November: a four engine boomerang, with a zig-zag trailing edge and a wingspan almost as wide as a B-52's. It is due to complement, and even-tually replace, Rockwell's variable-geometry B-1B, heir to the B-IA which President Jimmy Carter cancelled in 1977. Both

bomber, the all-wing B-2, was

Under the US budget plans the B-2 programme is put back by a year, but 132 of them are still due to be produced - at more than \$500m each, the most expensive aircraft ever

aircraft are controversial

already built, and a fuzzy photograph released of the aircraft These US and European in flight, showing it to resem-ble more a piece of hewn rock developments take place against the background of a rapid narrowing of gaps by the Soviet Union, as the MiG-29 than anything designed to stay The USAF's Northrop stealth fighter's display at Farnborough last year amply demon-strated.

The Chinese, after basing their production on Soviet aircraft, have also done much catching up, benefiting from access to Western technology.

The key development in Asia, however, is undoubtedly the hard-fought US-Japanese agreement on the FSX fighter, \$7bn project based on the F-16. Japan, after experience in licensed production of US fight-ers and in its own trainers and the Mitaubishi F-1 close-support fighter, was never going to buy off the shelf, but faced strong opposition in the US to its ambitions. In the end, DS participation has been fixed at 40 per cent, both in initial development and in production of the planned 130 aircraft.



Asream is a joint project involving the governments of the UK, West Germany and Norway

GUIDED WEAPONS

Small is cost-effective

collaboration and the search for smallness are two current themes in guided weapon

Both are driven by defence budget constraints and by the need to get more missile capa-

One of the most important current missile programmes is the US/European programme to develop the advanced medium-range air to air missile (Amraam) and the advanced short-range air to air missile

(Asraam). The Amraam progra ducted in the US through two suppliers, Hughes, the prime contractor and Raytheon, the follow-on contractor, for the US Air Force. The Amraam missile may also be produced for European air forces, which would make it one of the higgest missile production con-tracts. Both missiles are expec-ted to become the standard air to air missiles for Nato in the

The Asraam short-range missile programme is a joint project involving the govern-ments of the UK, West Germany and Norway. Asraam will replace the Sidewinder missile, designed and devel-oped in the US. The main contractors for the project are British Aerospace (Dynamics), Bodenseewerk Geratetechnic and the Norwegian company Raufoss Ammunisjonsfabrikker. BAe is the prime contrac

next decade

Asraam and Amraam are intended to become a family of weapons for Nato under the terms of Memoranda of Un standing between the US and the European Nato partners. Asraam is to be produc initially in Europe and Amraam initially in the US, but the Memoranda allow for the production of both missiles

in both the US and Europe.

A joint venture company, Euraam, was set up by Mes-serschmitt-Bolkow-Blohm and AEG of West Germany, British Aerospace and Marconi Defence Systems, to compete for the chance to manufacture the US-designed Amraam in Europe.

Britain is the leader on the

plans to produce the Asraam in Europe, while West Ger-many leads on plans for the Hughes Aircraft is the prime

contractor for Amrasm in the US and has tested several Amraam missiles. Raytheon, the follow-on supplier, handed over its first production line Amraam to the US Air Force earlier this year. The US has a different pro-

curement process for guided missiles than that used in European countries. It has resulted in two main produc-ers, with each standing to gain large-scale production promes. Raytheon, although the follow-on contractor to Hughes, has forecast that it field alongside conventional Hughes, has forecast that it is alongside conventional could make up to \$6.4bn from artillery. It is being made in further sales of all types of Europe under a Memorandum of Understanding between the ing as a follow-on or second US, West Germany, Britain,

craft and to General Dynamics, one of the other main US missile contractors. European manufacturers other than the main contractors do not have

this possibility.
The missile programmes involving two suppliers in the US include the Hughes Maver-ick missile for the USAF and the US Navy; the Hughes Phoenix missile for the US Navy; the General Dynamics Standard 2 missile for the US Navy and the Stinger missile for the US Army. These are potentially enormous programmes, with the Stinger missile alone

worth a prospective the next 10 years. The US is also working to produce an anti-tactical mis-sile, a version of the US Army's Patriot air defence

joined forces with West German companies in a collaboration agreement to produce an enhanced Patriot missile system. Raytheon has a team nt with Martin Marietta, a US contractor, and AEG, Messerschmitt-Bolkow-Blohm (MBB) and Siemens, to carry out research and develit to improve the antitactical missile capability of

Amraam and Asraam are expected to be standard in Nato

the Patriot as well as the system's performance against air-craft threats.

cooperative effort has come from West Germany and the US. AEG and Raytheon will share some of the first contracts under the first phase of the interpretation. the joint programme, a \$6.1m US Army contract to start engineering model missile seeker modifications, with AEG working on the develop-ment of an active missile

transmitter.

Raytheon, the fifth largest
US defence contractor, last
year won a \$166.8m contract
from the US Air Force's system command's electronics
systems division to upgrade
the ballistic missile early warning system (BMEWS) site at Fylingdales, North York-shire, England. The familiar Fylingdales golf ball shape radar domes will be replaced by a fixed plant. by a fixed phased array radar with three angled faces to provide missile tracking and

warning over 360 degrees,

A UK contractor is to build the technical facility at Fyling-dales, with Cossor, Raytheon's UK subsidiary providing services for system design and installation.

One of the biggest intern tional collaborative guided weapon programmes is the multiple launch rocket system (MLRS), This is a US missile system for use on the battle-

The industrial management of this joint production and procurement programme is being undertaken by MLRS Europaeische Productions. The launchers for the system are being integrated by Aerospa-tiale in France and Wegmann in West Cormany

in West Germany. The British company GEC Avionics recently delivered the first European-built stabilised reference package/position determining system for MLRS. This equipment deter-mines the geographical position of the launch vehicle. GEC Avionics is also produc-ing, under licence from Allied-Signal Aerospace, the gyroscopes used in the rocket

One of the latest guided weapons programmes is for the advanced air to air missile, (AAAM) a long-range bigh-speed missile for the US Navy. Hughes Aircraft and Raytheon formed a joint ven-ture, the H and R company, and won a 52-month evaluation phase contract late last

A recently-announced col-laborative venture in Europe involves British Aerospace (Dynamics) and Thomson-CSF, of France. The French company is to supply the active radar seeker heads for the new British Aerospace mediumrange air to air missile, Active Sky Flash. The project involves co-funding by Thom-

involves co-funding by Thom-son-CSF of the work.

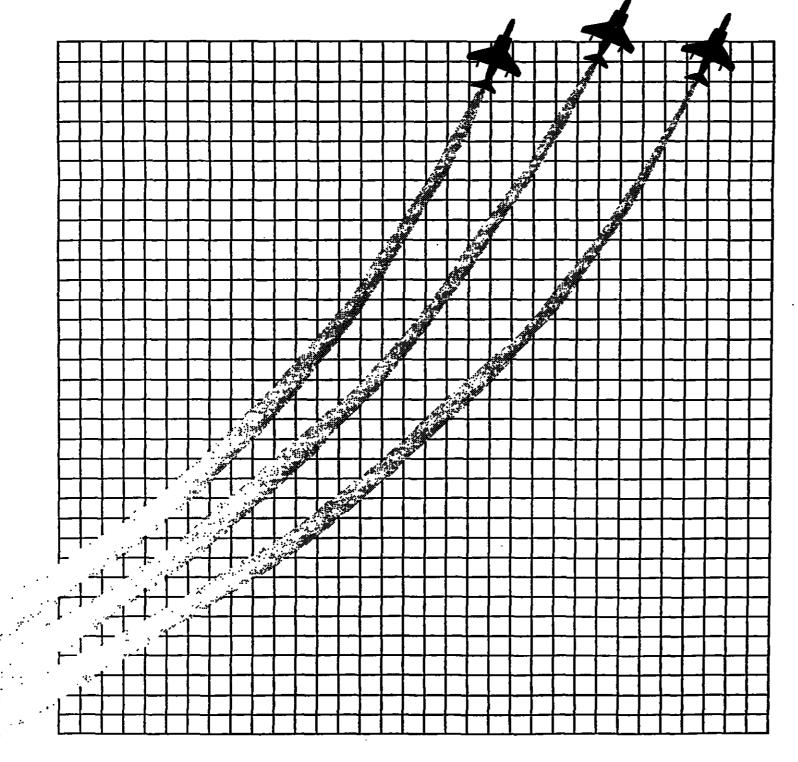
Active Sky Flash is under development by British Aero-space (Dynamics) as a com-pany funded project, based on the Sky Flash missile in ser-vice with the Royal Air Force, and the Swedish Air Force. The Thomson-CSF active radar The Thomson-CSF active radar seeker will give Active Sky Flash a fire and forget capability, making it autonomous once it has been fired from the launch aircraft.

The emerging Japanese aerospace industry is also working on new missile pro-jects. The Japan Defence Agency has allocated Y4bn (\$30m) for technology research into a new medium-range surface to air missile (SAM) to replace the US-designed Hawk missile cools missile early next century.
Contractors for the new SAM include Mitsubishi Electric, Mitsubishi Heavy Industries and Toshiba who will take part in a research project to define the missile before full development late next decade. The total programme could

cost more than \$7.5bn.

The smallness of some of the new missile designs is emphasised by the proposal from British Aerospace for a "hit-tile" guided weapon that would weigh just 12kg, that would not have an explosive warhead, but would be designed to aim for a direct hit each time on a target and destroy it with kinetic energy. Such a missile could be small enough to be launched from a shoulder-mounted tube and could be used against tanks

Lynton McLain



Growth curve.

The growing world strength of Plessey in aerospace is the result of a three-pronged strategy.

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Growth internationally through acquisitions and agreements, like its important stake in the Italian electronic warfare specialist

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Elettronica. Or its acquisition of Plessey Electronic Systems Corporation, prime contractor to the US Department of Defense for MDS, the NATO tactical information system. Or its link-up with ITT Avionics of the USA for marketing of Plessey satellite navigation receivers.

Growth through research and development, enabling it to provide integrated avionics packages and work towards the ultimate fusion of aerospace electronics and engineering.

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Plessey in aerospace is firmly on the growth path to success.



ics; airborne electronics systems; radar manufacturers (both for land and airborne applications); sub-systems on aircraft, such as undercar-riages and wheels; all the internal equipment on aircraft; and products for airports, terminals and runways. Hundreds of companies com-

In the UK, the Electronic In the UK, the Electronic Engineering Association reported £37bm of sales by members last year, a rise of 12 per cent on 1987 and equivalent to almost a tenth of the British gross national product. Defence is the largest sector of the electronic engineering industry, and in the UK the range of companies spans the range of companies spans the breadth of aerospace.

Recent contract successes by the industry reflect the diver-sity of the equipment sector. Thorn EMI Electronics, for example, recently won a con-tract from the Royal Norwe-gian Air Force to supply radar data extraction equipment. Racal Avionics won a contract to supply a doppler navigation system for the Republic of Korea Navy, for installation in Westland Super Lynx helicop-

GEC Avionics won a con-tract from Grumman Aircraft for the full-scale development of a wide field of view day-and-night head-up display for

craft, a field where GEC is one of the world leaders.

In the US, a study by Frost & Sullivan, market research consultants, has shown that the armed forces are expected to spend \$6.4bn a year on elec-tronic test systems and instru-ments by fiscal 1993. The consultants said:

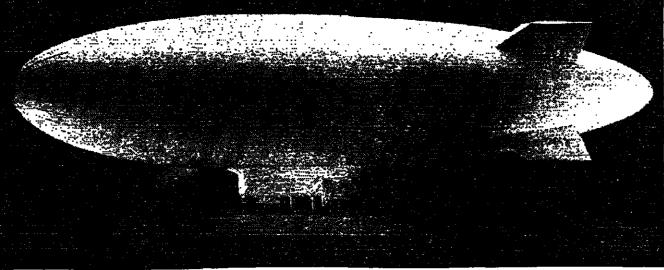
"The electronic content of weapon systems has steadily increased, and as weapon systems increase in complexity, reliable automatic testing is crucial to sustain opera-tional readiness in a cost-effec-

Also in the US, the Raytheon company, one of the prime US defence and aerospace equip-ment contractors, won three air traffic control programme orders last year under the Fed-eral Aviation Administration's (FAA) multi-billion dollar

(FAA) multi-billion dollar National Airspace System modernisation programme. Two of these will be displayed at the Paris Air Show.

The first is the company's terminal doppler weather radar system, being developed to detect windshear conditions and hazardous weather in the airport terminal area. The and hazarutus weather in the airport terminal area. The multi-year contract provides funding for 47 systems, and includes an option for 55 addi-tional systems, bringing the total contract value to approx-imately \$282 5m.

The second is the new 20in-by-20in high-resolution colour console, which Raytheon is developing and producing for IBM under the advanced automation systems contract. Ray-theon says that more than



A model of the Airship industries project, being developed for the US Navy in its airborne surveillance work

THE EQUIPMENT SECTOR: its importance is increasing

Contracts reflect diversity

5,000 consoles and nearly 2,000 monochrome displays will be use by air traffic controllers. The value of the con-tract is likely to exceed \$600m. In the US defence sector, the US Allied-Signal Aerospace company and Raytheon have been chosen by the Air Force as the winning contractor team for the full-scale develop-ment phase of the Mark XV identification friend-or-foe

(IFF) system. The potential

value of this programme and related activities exceeds \$4bn. The system is intended to upgrade the effectiveness of US weapons systems when confronted with hostile elec-tropic jamming.

tronk jamming.
The one-third split between equipment, airframe and engines has existed for some time, but in recent years the importance of equipment has increased. This is illustrated by the £20bn European Fighter

vious generation of fighter air-craft, such as the Tornado, had equipment that accounted for approximately one third of the cost of the aircraft. In contrast, the European Fighter Aircraft has equipment that accounts for over half.

There are several reasons

for the growing importance of equipment. The prospects of improving the performance of civil and military aircraft changes are becoming less attractive. Designers have almost reached the point of diminishing returns in their attempts to improve performance. More and more is spent to get fewer and fewer

To counter these limitations, designers have turned to avionics, airborne electronic systems, to help stretch the performance of conventional

obveraft designs. The European Airbus A320 150-seat twin-jet airliner was the first passenger aircraft in production to fly with a "fly-by-wire active control system" operating its elevators, rudder and allerons. This computerbased flight control system does not quite take the place of the pilot, but is not far from doing so. The pilot moves his small side stick control lever to indicate to the aircraft's computer what he wants the aircraft to do. At the same

time, the computer receives signals from sensors, which give it data on the aircraft's position, direction and speed. The computer compares the instructions from the pilot with the current data on the aircraft's performance, then sends control signals to the aircraft's flying surfaces. These will move to permit the aircraft to fly in the direction desired by the pilot, but only within limits predetermined and set within the computer to keep the aircraft flying safely. The system is called a "fly-by-wire active control system"

because it uses electronic signals sent down wires, instead of solid control linkages, to activate the control surfaces on the wings and rudder.

There was concern about the safety of the fly-by-wire sys-tem after an Airbus A320 air-liner had crashed at an air disolay in France last year, but the French authorities have

subsequently cleared it of any responsibility.

The latest development is the "fly-by-light" system. This is a version of the fly-by-wire

active control system where the wires carrying the electronic signals have been replaced with optical fibres. One of the first comprehensive examples of a fly-by-light sys-tem to take to the skies was made by GEC Avionics, of Rochester in the UK, to control the Airship Industries' Skyship 600 non-rigid airship. Skyship 600 completed its

maiden fly-by-light flight last October in Weeksville, Carolina. It was controlled entirely by an optically signalled fly-by-light system, developed by the GEC Avionics flight auto-mation research laboratory. The system is based on thin optical fibre cables, which carry signals from the flight control computer to the actuation units at the rear of the

The flexible optical fibre cables have several advan-tages. They are able to accommodate the flexing of the airship and are not susceptible to electro-magnetic interference or lightning strikes. The absence of metallic wires in fly-by-light systems is a further important characteristic, especially on applications where a low radar signature is required, as on the airship in its military role as an observation platform.

A GEC Avionics fly-by-light flight control system is being developed for the Airship Industries operational devel-opment model airship, which is being designed for the US Nevy in its airborne surveil-lance work .

Lynton McLain

The outlook is uncertain for commercial spacecraft

Glasnost may take the pressure off

THE WORLD's commercial period of uncertainty, as the cost and usefulness of extend-ing man's activities outside the atmosphere come under scruatmosphere come under scrutiny, perhaps more intensely than in any period since the space age began in the 1950s.

Twenty years on from the first manned Moon landing, of July 1969, is a good time to reflect on the useful things that have come out of space exploration. In recent months, politicians and technologists around the globe have been considering this issue, and the answers are not altogether answers are not altogether reassuring for those pressing for expanding extraterrestrial efforts over the next few years. Even though there have been huge advances in rocket

Many observers doubt whether expansion is imminent

and satellite technology, which has led to the burgeoning growth over the past two decades in worldwide space-based communications services, many observers doubt whether similar expansion is on the point of taking place in other space-related industrial

Such operations — which happen now to a limited extent but which, according to some, could lead to big, largely privately-funded industries in the future — include remote sensing or the collection by satellites of Earth photographs which can be used to monitor

which can be used to monitor crop growth or detect minerals deposits.

Other space-based activities that, in the past, have been projected to take off in a big way include low-gravity materials processing and the servicing of satellites by automated mechanisms aided by astronauts working in celestial "garages".

"garages".

There will undoubtedly be a large demand over the next decade both for development and manufacture of commercial commercial control of the commercial control of the commercial control of the control of th

and manufacture of commercial communications satellites, and the operation of the launch vehicles needed to get these systems into space.

Analysts expect perhaps 15 launches a year of satellites such as these over the next decade. That will entail useful contracts both for satellite builders like Hughes Aircraft and General Electric of the US, and also for commercial rocket and also for commercial rocket

Of the latter, Arianespace, a European consortium in which the French national space agency has a one-third stake, is expected to take roughly half the market program launch the market, providing launch services for \$50m-\$100m a satellite. The other major players will be the launcher operations being established by three US aerospace groups - Martin Marietta, General Dynamics and McDonnell Douglas - and

the Chinese Government.
The exact nature of the extra space business that will be added on to the rocket and sat-ellite basics is, however, hard to predict. It appears decreas-ingly likely that developments in areas such as remote-sensing and industrial processing will add up to significant com-

mercial opportunities over the next decade or so.

The reasons for this gloomy prognosis — which is certainly far less bullish than was the case even five years ago — stem from a number of some-times interrelated factors con-nected with politics, economics and technology.

nected with politics, economics and technology.

Probably the biggest blow to the world's space business has come, in an indirect fashion, from the spirit of glasnost emerging from the Soviet Union over the past two years.

Mr Mikhail Gorbachev, in calling into question many of the tenets on which the Soviet economy has operated, has caused some soul-searching in his country about the Soviet Union's own highly successful, but hugely expensive, space but hugely expensive, space programme.
That has important implica-

tions - bearing in mind the prestige aspects of the two superpowers' space activities over the past 30 years — both for the scale of the US space programme and the amount of public money committed to it. There are already some signs that, as a result of glasnost, the USSR's activities in space — in particular in relation to

its Mir manned space station and the future operation of the country's version of the US space shuttle - may be cut back.

hack.

That, in turn, would lead almost certainly to less competitive pressure on the US political establishment to keep up the pace of the US's own extraterrestrial efforts as a way of matching the Soviet advances in this area — which would lead to fewer opportuniadvances in this area — which would lead to fewer opportunities for the private sector in bringing to further development work started out in public agencies.

One example of where pressures of this kind may already be working involves the grandiose plan by the US National

There will be a large demand for satellites and launch vehicles

Aeronautics and Space Administration for a manned space station to be built in the late 1990s. This project has been rumbling on for five years, during which time the cost estimates have shot im from a mates have shot up from a modest \$8bn to three times that figure. Western Europe, Canada and Japan are due to help in the development and costs of the station scheme.

But because of the reduced

competitive pressures from the Soviet Union – and the rather more pragmatic arguments related to the soaring cost esti-mates - the new administra-tion of President George Bush is reviewing the rationale for the station. There are some signs that the project may be greatly reduced in scope, or dropped altogether. If that happened, it would be a blow to the dozens of companies, big and small, that had hoped to ride on the project's coat-tails and to gain work either in the construction programme or because of the research due to because of the research due to have been conducted on the orbiting base in areas such as

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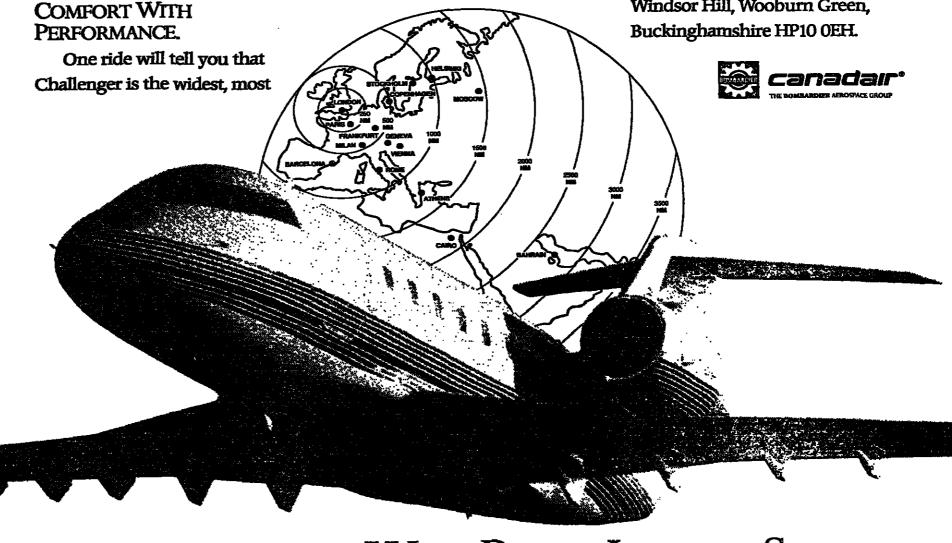
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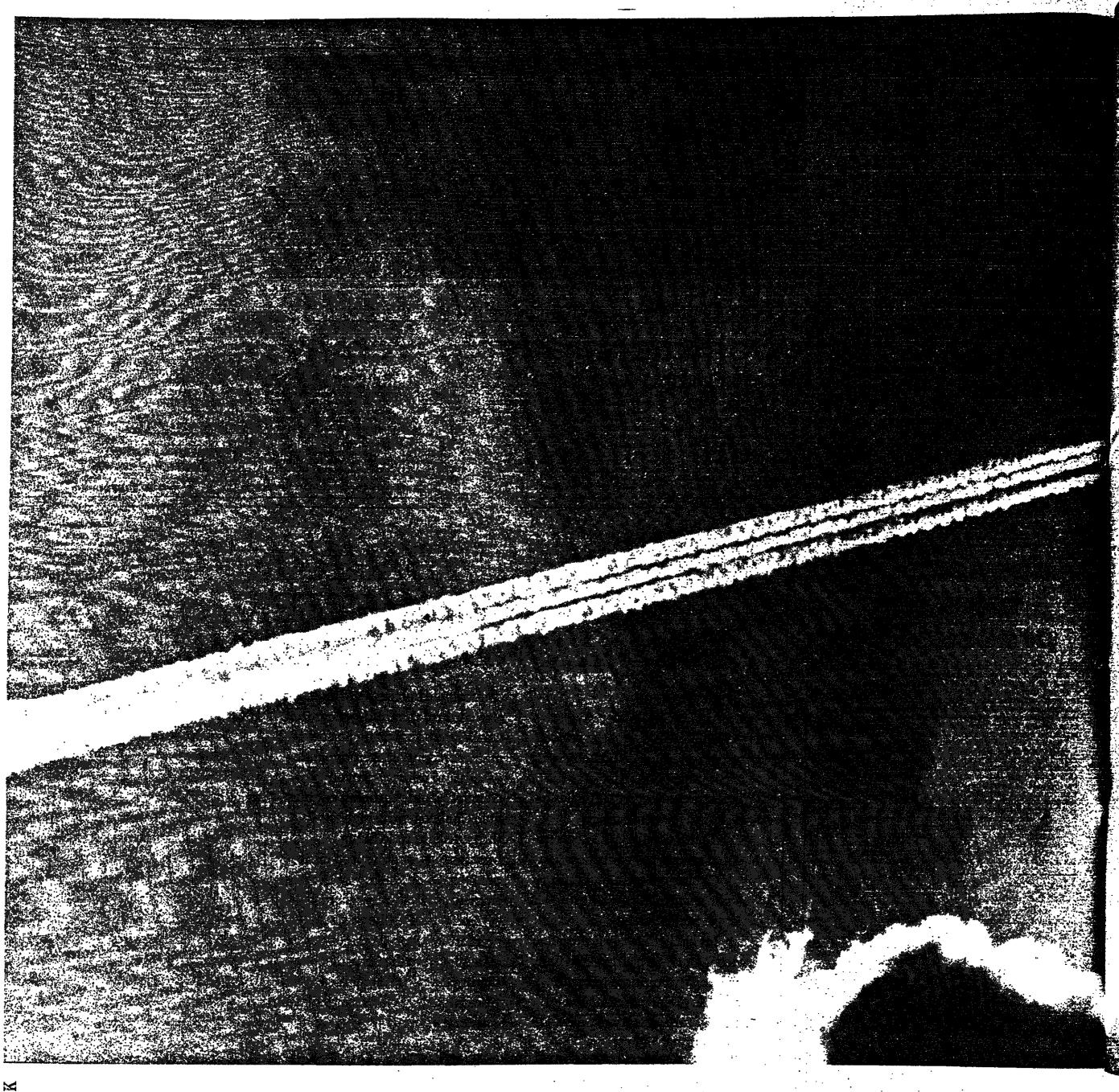
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A class apart.

AIR TRANSPORT: in anticipating a huge passenger increase, the airlines are building up record debts, reports Arthur Reed

The route to bigger profits lies through crowded skies

LEADERS of the world airline industry attending the Parls salon will be in bullish mood as their industry enjoys the biggest boom in its history.

Desuite public concern about safety, delays, ageing airliners, and terrorism, passenger num-bers continue to rise by about 8 per cent a year, and there seems little reason to doubt the forecast that today's total of one billion air travellers a year will double by the end of the century.

Economic factors were all in the airlines' favour during 1988 - business activity stayed strong, inflation and cost increases remained modest. fuel prices were low, and the US dollar held its own. This scene remained much the same by the spring of this year, with only two real clouds on the industry's horizon: an escalation in the price of kerosene and concern that airports and airways will become saturated.

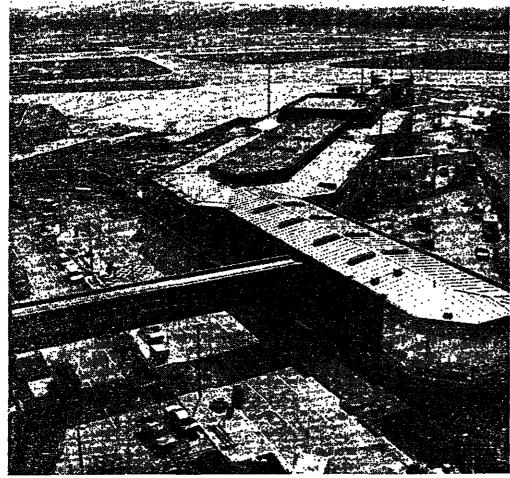
To carry all the anticipated additional passengers and freight, and to replace firstgeneration jets, the airlines are

Economic factors were all in the airlines' favour during 1988

on an unprecedented aircraftbuying spree. During 1988, a total of 1,047 orders, worth \$47.47bn (£29bn), were placed with the five major manufac-turers (Airbus Industrie, Boeing, British Aerospace, Fokker, and McDonnell Douglas), compared with 726 the previous

Well before the end of the first four months of this year, it looked certain that the 1988 record would be broken. Boeing, for instance, had logged 499 orders, worth \$26.8bn, while during the whole of 1988 the company sold 636 aircraft,

And the orders came in large packages: United Airlines, of the US, signed up for 370 Boeing jets, worth \$15.74bn, and GPA, the Irish leasing group spread 308 aircraft commit-ments worth \$16.8bn between



A new extension to the pas opened last month, for flights within the UK, Vister and the Channel

Airbus, Boeing, and McDonnell Douglas. The latter deal accelerated the strong industry trend towards lease/purchase,

rather than outright buys.

But in making these acquisitions, the airlines are building up record debts. In America, the Federal Aviation Adminis-

tration estimated that at the end of last year, airlines owed. \$12.3bn, with annual repayments running at \$1.7bn. If the traffic were to dip against the forecasts, the industry would be in serious trouble. The International Air Transport Association (lata) continually annual result, at under 1 per cent of total revenues, is not enough to finance long-term fleet re-equipment needs.

The airlines have identified

two key sectors, productivity and computerisation, which they can develop in their

efforts to drive up profitability. Iata statistics indicate that the one million employees in the industry are certainly working harder. Production, measured in tonne-kilometres performed per person, is increasing at about 8.5 per cent a year, com-pared with 4 per cent in the

As for computerisation, every airline of any size has now joined one of the new computer reservations system groupings in order to maximise the service they offer. In future, when customers ask for a ticket on airline X, they will also be able to make, in the same transaction, firm bookings for hotels, car hire, conference halls, rail travel, theatres, restaurants, and many other services.
A trend towards amalgam-

ations can also be identified as airlines seek to build their

financial strength. Ten years after deregulation began in the United States, eight carriers have emerged to control more than 90 per cent of the domes-tic market. In doing so, they have swallowed up most of the smaller, regional airlines, using them now to feed passengers into their mainline routes.
These US "mega-carriers"
are today flexing their undoubted muscle to compete against airlines in Europe which, with certain exceptions, are high-cost, heavily-unioned companies, and against the emergent, low-cost airlines around the Pacific rim. To counter these incursions into their traditional markets, and

A trend towards amaigamations can also be identified

to make themselves more efficient for 1992, when the European Community trade fron-tiers go down, the European airlines are beginning to look for partnerships among them-

At the same time, the Euro-peans are alleging that some of the American carriers are dumping seats in Europe at below cost, as a way of attract-ing traffic into their lucrative home networks.

But will there be room for all of this additional traffic to fly? Dr Gunter Eser, director general of Iata, said recently that by the year 2000 there were likely to be 11,000 aircraft in airline service, or 50 per cent more than today. He said: "If aviation is to continue to underpin the expansion of trade and tourism, create eco-nomic opportunities, and provide more jobs, its natural growth must not be strangled by inadequate airport and air-

pace capacity."
The shortcomings of the aviation infrastructure already impact upon the annual results of many airlines, particularly in Europe, around some big cities in the US, and in parts of the Pacific/Asia region. Envi-ronmental pressures have resulted in a virtual block on ports, while plans to extend existing airports are strenu-

ously contested. Airways are becoming clogged, especially over Europe, due to outmoded equipment, shortages of skilled staff, strikes, and varying working practices in the 20 or more centres which share con-trol of air traffic. The problem has been quantified by the West German airline Luf-thansa, which said that take-off and landing delays to its off and landing delays to its airliners during the 1988 fiscal year resulted in the expenditure of DM90m in additional fuel, and other direct operating

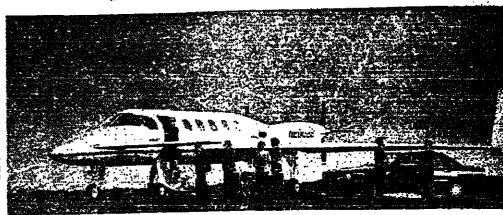
Landing slots at most of the larger airports in Europe are now becoming so scarce that there is a strong trend for air-lines to order bigger airliners so that they can carry more passengers while reducing the overall number of flights.

But some airline industry

leaders think the problem could be solved through greater efficiency by those who run the airports and the air traffic control services. Mr Michael Bishop, chairman of the Airlines of Britain group, said recently that European air fares were being kept "artifi-cially high" by badly-negotiated work practices among controllers, and the "misman-agement" of runways.

BUSINESS AVIATION

Buy your own - and forget the timetable



WORLD AIRLINES are fighting for the patronage of the business traveller - while companies are buying their own business aircraft, to get away from the restrictions of

airline operations.

Airlines want to retain business travellers, because they mean high profits and prestige. So the battle to win increasing shares of the business-passen-ger market is fierce, with air-lines seeking ways to make the long haul business trip more comfortable.

There is only a certain amount airlines and manufac-turers can do to attract more business passengers within the confines of an airliner fuselage. The size of seats and the space between them in the first-class and executive sec tions can be changed; and this has become one of the main areas where airlines can inject

some differential between their

competing services. One airline, Scandinavian Airlines System (SAS), has introduced office facilities on its long-haul flights, for the business traveller who simply cannot stop working. Other ways of attracting business. people include better facilities on the ground, such as excluoffice facilities at airports; and comprehensive travel arrange-ments, taking in hotels and

But, however good the facilities, only so much can be done to ease the pressures and difficulties of air travel. Ultimately, airlines are restrictive for trav-ellers who require the freedom Business travellers seeking greater independence from

crowded airports and the restrictions of timetables are turning increasingly to corpo-rate business jet and propeller-driven aircraft. Demand for these mini-airliners is rising, with forecasts that prices for both new and second-hand ones will rise this year, according to analysts at Omni Jet Trading Floor, at Maryland, in

Many business aircraft are luxurious, and some have been used as the means of introducing some of the most radical production techniques in aero-space. This is possible because they are small and their capital costs lower than those of con-

ventional passenger airliners.

The result is the development and production of small, ment and production of small, high-performance aircraft for business, which include the latest technologies. The Beech-craft Starship I, for instance, is an attractive, futuristic-looking business aircraft with a fuse-

lage made entirely from carbon-fibre composite materials The manufacturer says it "affords an exciting new vision of what the aircraft of the future will look like. It is the

first of a new breed. The first production Starship

1 twin turbopropeller business
aircraft will be displayed in Europe for the first time at the Paris Air Show, when it will be delivered to a US buyer. The first European delivery is expected by the Beech Aircraft Corporation, part of the US

Companies are turning increasingly to corporate aircraft

Raytheon Corporation, before the end of this year.

The production process for Starship 1 uses novel technology, adapted from the garment industry for aerospace – a development made possible, because the carbon-fibre structure is processed originally from a fabric. A computer-con-trolled cutter, known as a Gerber cutter, cuts the carbon-fibre fabric prior to the shapes being laid up for bonding and pressing with a sandwich of honeycomb material.

The result is a carbon fibre structure that is half the weight, or twice the strength, of corresponding aircraft alu-

minium construction.

The two fuselage halves of this revolutionary sircraft are joined and bonded in a 60ft hot chamber, 25ft in diameter, to produce a passenger cabin structure weighing just 480 pounds. This modest weight – combined with the reduction in parts required for the Starship 1, compared with a conven-tional business aircraft offers the corporate business customer a light and simple structure unrivalled in civil aviation, with the prospect of lower operating and mainte-

Beechcraft claims that Starfuel than a conventional business jet, yet it flies almost as fast. It can also use short runways unavailable to a jet aircraft, enabling business travellers to land at small suburban

airports.
Other manufacturers are likely to follow the lead of Beechcraft, and it is significant that such a development as Starship 1 has occurred in the US, the home of business aviation and the corporate business aircraft.

Nevertheless, business aircraft are also becoming more

common elsewhere, especially in Europe. Here, the con-straints of increasingly busy mainstream airports have focused attention on corporat business aircraft.

In Britain, increasing pres sure at the main airports in the south-east has led to concern among the business community. The Business Aircraft Users Association for the UK, which represents the corporate aviation interests of more than 50 of the biggest companies, criticised the recommendations of a study by the Civil Aviation Authority of air-traffic policy for the London area.

The CAA had recommended restrictions on business aircraft access to major airports and to airspace. The associa-tion replied that curbs on business aviation would threaten the nation's balance of pay-ments: member companies had turnover of £20bn. "Their business aircraft have become an essential tool, used in maintaining and furthering these jobs and that income," it said.

Business aviation's use of the nation's airports and air-space is highly productive while modestly demanding. One company director in a business aircraft can be a more valuable airborne passenger, as far as the nation's economy is concerned, than the total passenger load of a number of wide-bodied airliners serving the packaged holiday indus-try," the association told the

Meanwhile, the Canadian group, Canadair Aerospace, part of the Bombardier corpo-ration, is to strengthen ties between Canada and the UK in the field of business aviation. It announced this spring that Jecco Aviation, of Bournemouth, would provide aircraft completion services for Canadair Challenger aircraft.
This contract strengthened

the customer support arrangements for the Challenger air-craft in the UK, and followed between Canadair and Cran-field Aeronautical Service, of England, for the certification of Challenger aircraft by the UK Civil Aviation Authority.

Canadair has delivered 185 Challenger twin-jet aircraft, certified for operation in 12 countries. Brazilian approval is currently under way, and certification in the UK is expected in the fourth quarter of this year, leading to the prospect of the first sales of the aircraft in

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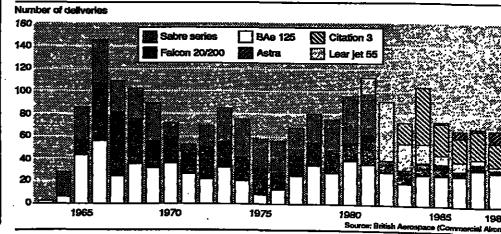
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Medium cabin business jets



Glasnost may take the pressure off

Continued from page 5
Questions related to the costs of space ventures are unavoidably bound up with technological issues concerned with the effectiveness of these

There is now much more doubt about whether grand visions in the field of space factories for making crystals and other materials under low gravity add up to a reality rather than a pipe-dream. Undoubtedly the Challenger space-shuttle explosion of January 1986, which severely threw off course the entire US space programme, has had an effect in making people ques-tion more deeply some of the perceived wisdoms of space

extravaganzas. Issues of economics have also reared up in the debate about the two large-scale and quasi-commercial activities. which now take place in one

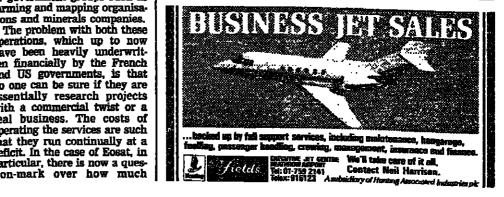
existing area of space applica-tions - remote sensing. These projects are run by two companies: Spot Image, in France, and Eosat in the US. They involve the orbiting of special satellite equipped with cameras and other sensors. Photographs of the Earth and other images are collected from these, and sold to commercial or government groups such as farming and mapping organisations and minerals companies.

operations, which up to now have been heavily underwritten financially by the French and US governments, is that no one can be sure if they are essentially research projects with a commercial twist or a real business. The costs of operating the services are such that they run continually at a deficit. In the case of Eosat, in tion-mark over how much money the US Government wishes to keep pumping into the venture to keep it going. According to some observers, the best possibility to sus-

tain the world's activities in remote-sensing would be for the two services to merge in what would be a unique Fran-co-American partnership. That

would also underline the truly international scale of space operations, and might produce a large enough flagship to propel at least one of the impor-tant areas of space business through the choppy waters that appear to lie ahea

Peter Marsh



EUROPE: AAGIN ION WORKS WONDERS

A NUMBER OF YEARS AGO A FEW MEN IMAGINED A NEW EUROPE... TODAY

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SINATION AND BEYOND

tions.

ON A COMPUTER display at the forge of Doncasters Monk Bridge, in Leeds, the chief metallurgist watches a 400kg billet of superalloy as it changes into a disc for an advanced military engine. He can follow the metal's movement — how it flows into

movement - how it flows into the die, whether it folds or

fails to fill corners, where there are undesirable deforma-

first time," says Dr David Smith, in charge of the devel-opment of isothermal forging

by computer for Inco Engineered Products, a European

subsidiary of the Canadian

mining group Inco.
If a blacksmith tried to forge

such a material, all he would

do is damage his anvil, they

say at the forge. These are materials for such engines as

the Eurojet RJ-200 engine for

the European Fighter Aircraft, scheduled for service in the

mid-1990s. Beyond them lie still more recalcitrant materi-

als envisaged for engines early

in the next century, more ceramic than metallic.

The time-nonoured engineer-ing approach of making and breaking components — as well as engines — until the design team gets it right is

simply too slow and too expensive today. The engine-makers have begun to model manufac-

turing processes in the com-puter. They want to under-

stand more clearly not only

what happens to a material while running in the engine, but what happens in the "engine" that shapes it, and

whether its weaknesses can be eliminated at source.

For Rolls-Royce, isothermal forging of discs, impeller and blades is one of the first manu-

facturing processes to be mod-elled in the computer (along

with casting and heat-treat-

ment). The company has worked closely with the Don-casters Monk Bridge forging

specialists to demonstrate that a new disc forging, which for-merly needed about two years

of development to put into pro-duction, can be accelerated by

computer to only four months.
"It puts the science into
manufacturing," says Mr

The time-honoured engine

"The aim is to get it right

David Fishlock looks at radical changes in airframe materials

Polymer path to weight loss

build airframe structures will change radically during the 1990s. Traditionally they have been built about 75 per cent by weight from aluminium alloys. with the balance made up of steel and titanium (10 per cent apiece) and composites (5 per cent). But this will change with the introduction of composite materials tailor-made for particular parts of the aircraft.

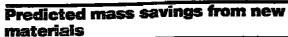
Advanced polymer-based composites offer enormous opportunities because of their low density combined with high strength and stiffness, according to Dr Graham Dorey, superintendent of structural materials at the Royal Aircraft Establishment, Farnborough. Dr Dorey told a conference on aerospace applications of advanced materials, held by the Royal Aeronautical Society in London: "Properties achieved so far, in what is still a relatively young technology, are modest compared with the theoretical properties." Both matrix materials and reinforcing materials are improving

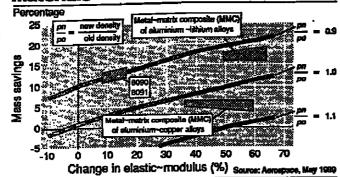
continuously.* Experience so far in such aircraft as the AV8B vertical take-off fighter (25 per cent composites) has been mainly with carbon fibre reinforced plastics (CFRP). They normally offer mass savings of 10-20 per cent over the 2000 and 7000 series aluminium alloys. Sometimes the weight advantage can even exceed this span, says

Dr Dorey.
His estimates of the value of this saving range from £30 per kilogram in a light aircraft, through £100 per kg for trans-port aircraft and £250 per kg for a fighter, to £1,000 per kg for space applications.

But composites offer other advantages, such as the fash-ioning of complex shapes, avoiding machining costs and waste of material, and also reducing the number of indi-vidual components as well as joining costs. Examples already flying include new aerodynamic tips of CFRP on

helicopter rotor blades. New developments in the use of carbon fibre aim to improve the compression strength and impact resistance of the composites. A tougher composite can be made using PEEK (polyether ether ketone) as the matrix. This is a semi-crystalline polymer, also resistant to most solvents. According to Dr





Dorey, PEEK-based composites may raise the design strain from around 0.4 per cent for CFRP to 0.6 per cent in tension and 0.5 per cent in compres-

Another important goal of mposites research is to resist higher temperatures. epoxy resins used in CFRP are limited to about 170 degrees Celsius in dry conditions, and

Everything we have achieved is modest, compared with the theoretical properties'

only about 130degC in normal atmospheric conditions because of their propensity for absorbing water. Polyimide matrices can be used at over 300degC but tend to be brittle and, in combination with carbon fibres, can show micro-cracking because of differences in thermal expansion.

Still more stable polymers have been synthesised experimentally, including polyqui-noxalines capable of withstandnovames capable of withstanding temperatures up to 350degC; and polyimidazo quinoxalines (up to 480degC). Moisture resistance is another goal of the chemists, who have shown that acetylene terminated quinoxaline (ATQ) is completely resistant to mois-

ture up to 250degC.

But metals are still resisting the encroachment of composites, most notably through the development of the aluminium-lithium alloys, announced in 1985, almost two decades after Farnborough first disThese new light alloys are 8-10 per cent lighter than the 2000 and 7000 series aluminium alloys, and up to 15 per cent stiffer. If advantage is taken through redesign of both of these advantages, mass savings of 15-18 per cent are

The damage-tolerant version of aluminium-lithium — called the 8090 series and equivalent to the 2000 series of aluminium-copper alloys — is now fully developed and available as extrusions, forgings, sheet and plate. The material matches the 2000 series in strength, fatigue strength, and fracture toughness. Earlier problems – such as unexpected fatigue behaviour have largely been eliminated.
It is planned for use in both
civil and military aircraft.

The high-strength 8091 series aluminium-lithium alloys is following the same pattern of development about two years

Confidence already runs high enough in the 8090 series to explore its reinforcement with silicon carbide (ceramic) particles in order to boost stiffness still further. Such a composite, it is emerging, will compete with carbon-reinforced composites on the basis of specific stiffness. A formulation containing 20 per cent silicon carbide particles has been chosen as the best compromise between strength and stiffness on the one hand, and declining fracture toughness on the other, as the proportion of reinforcement rises in such metal-

matrix composites.

Metal-matrix composites (MMC) are attracting aerospace engineering interest because they offer ways of substan-

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tially improving a variety of alloys in which the designer has already built up considerable confidence. MMCs can be included in conventional designs with a minimum of

reworking.
Such materials include not only dispersed ceramic particles but continuous ceramic fibres - of boron, silicon car-bide, carbon or alumina, for example. A magnesium alloy reinforced with 50 per cent of aligned alumina fibres has proved twice as strong in ten-sion and 5.7 times as strong in compression as the matrix material. Moreover, these fig-ures improved to 6.3 and 10, respectively, at a temperature

of 315degC.
Researchers at Farnborough are also studying a system of making stronger and stiffer alloys by rapid solidification, quenching from the melt or the vapour to freeze structures vapour to freeze structures unobtainable by any conventional metallurgy. The net effect is a finer grained structure, finer dispersion of reinforcing particles, and hence higher strength and stiffness.

According to Dr Dorey, this technology opens the way to entirely new compositions and microstructures. But he cau-tions that the methods are "inherently expensive and con-sideration must be given to the economics from an early stage in any development."

A new Link programme of arch into advanced structural composites, was announced by the British government last month. It is making available up to £20m - the largest Link initiative so far and claims to have stimulated interest among 41 companies and 23 research centres in the UK. Companies are expected to put up at least matching funds, on a programme which already has counterparts in West Germany, Japan and the US.

British Aerospace has also been trying to forge seven UK-based materials suppliers into a national materials res club, conducting pre-competi-tive studies on high-temperature composites of particular interest to the aerospace indus-

include Alcan International British Petroleum, Ciba-Geigy, Courtaulds, Dunlop, ICI and IMI.

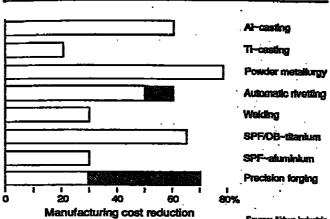
* Aerospace, May 1989.

Prospective club members

NEW TECHNIQUES

Age of making and breaking nears an end

Advanced manufacturing technologies -potential cost savings



David Alexander, head of manufacturing technology at Rolls-Boyce, which has closely supported this project.

Isothermal forging replaces the hammer blows with a strong squeeze that slowly massages the metal to shape. The squeeze, in the 3,200-tonne forge, may take many minutes but the most recalcitrant material eventually yields, says Mr Smith. He believes there is no alternative in sight for fashioning some of the lat-est alloys, made from mixtures of powders, to get the proper-ties that will keep them strong and stiff at white heat.

The stronger the alloy, the narrower the temperature "window" within which it can be forged, and the more likely it is to crack if the metal moves too fast. Isothermal forging is a way of applying Mr Smith cites several

advantages for isothermal forging over conventional practice for making discs, including close control of cryscluding close control of crystal structure, accuracy of forg-ing, and the fact it can handle materials the conventional forge cannot. Such materials include an Inco superalloy made by mechanically alloying powdered metals.

The biggest economy in sight for Doncasters would be if it could persuade enginemakers and their regulatory authorities that, so rigorous was its process control, discs no longer needed ultrasonic inspection for cracks mid-way through the forging process. It means that forging must stop and the part be machined to facilitate inspection. At present the safety authorities insist upon it. They have yet to be convinced that every isothermally forced disc made. thermally-forged disc made under the same computer set-

tings must be identical. But that is the engine-maker's

that is the engine-maker's objective, says Mr Alexander. Rolls-Royce believes it now understands many of the hurdles that must be overcome in order to make ceramic aeroengine components. They will have to be formed near to size, with minimal final material removal, and inspected for defects that cannot be detected at mesent.

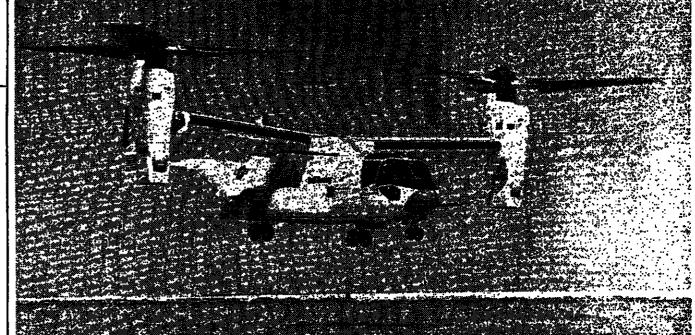
at present.
The manufacturing processes to produce the compo-nents must, therefore, deliver the required product quality quickly by total process con-trol," the company says. The airframe firms are

thinking along the same lines. To take the extreme example of the aerospace plane, British Aerospace envisages the use of such ceramic materials as titanium aluminides and carbonsilicon carbide composites to resist re-entry temperatures as high as 2,000 degrees for

Hotel.
According to Mr Johannes
Koshorst, manager of
advanced structures and materials with Airbus Industrie,
since some 30 per cent of the
drag of an aircraft in cruise is
induced or lift-dependent drag, the most direct way of reducthe most direct way or reducing it and saving fuel is to make the aircraft lighter. Mr Koshorst forecasts increasing competition between composite materials and advanced light alloys for civil airframes of the turn of the conture. at the turn of the century.

With Airbus 320, the com-pany made the major advance of introducing carbon fibre reinforced plastics for such primary structural compoprimary structural components as the vertical and horizontal tailplane. If the technology could be applied to the fuselage, it estimates a 35 per cent reduction in weight. lower manufacturing costs, and lower direct operating costs. Its hopes are pinned on a government-backed development programme being managed by MBB, in West Germany, for major fuselage components, and it hopes to introduce the composite technology into large fuselage structures around 1995.

David Fishlock



NEW WAYS OF FLYING

Release from the runway

A BATTLE will be fought in Washington during the next few months to save one of the world's most revolutionary air-craft from being axed as a result of cuts in the defence

The V-22 Osprey, otherwise known as the Tilt-Rotor, which is being developed by a joint team from Bell Helicopter Textron and Boeing Helicopters, has reached the flight test

stage.
Powered by two turbo-propeller engines, it combines in one airframe the ability to take off and land like a helicopter, but once airborne to convert into conventional forward flight. The V-22's engines and pro-

peller-rotors are positioned at the ends of the fixed wings, but can be rotated in flight. With the engines and rotors vertically positioned, the V-22 can take-off, hover and land like a helicopter. But by tilting them in flight to the horizontal position the Osprey becomes a fast, fuel-efficient, high-altitude turbo-propeller aircraft. Such a machine clearly has

many possible uses, both civil and military. Hitherto, throughout the 85 years of manned powered flight, continual efforts have been made to find new ways of becoming air-borne, stimulated by the desire to fly more safely, conveniently and cheaply.

Most of these efforts have failed, either because of lack of technological knowledge at the relevant time, or lack of cash, or both. Only the rotarywinged helicopter, and more recently the jump-jet Harrier fighter with its swivelling jets for vertical or short takeoff

and landing (V/STOL), have emerged as significant alterna-tives to the fixed-wing flight pioneered by the Wright Brothers in 1908.

It is only comparatively recently that the investigation into new flight techniques has gathered significant momentum, largely driven by a single requirement that has domi-nated both military and civilian thinking — the need either to transport people and sup-plies quickly to and from diffi-cult places, or to deploy fire-power where it might other-

wise be impossible.

In the military role, where costs have been less significant, the helicopter has served mainly as a transport vehicle, or used as a missile platform or "gun-ship", subsequently sup-plemented by the V/STOL Har-

In the civilian role, the helicopter has been less successful - although undeniably valuable - largely because of its higher operating costs, its noise levels and the limitations on size dictated by its basic

The V-22 Osprey bids to change all that, provided the US Defence Department can be convinced that the cash involved in its continued devel-

opment is worth it.
The V-22 made its maiden flight at Fort Worth, Texas, for 15 minutes on March 19, and then began a major test programme for military purposes, but with commercial use also

The original programme as funded by the Defence Department envisaged six flight-test prototypes, with an eventual \$1.7bn full-scale development

Defence budget cuts envisaged by President Bush, however, the Osprey Tilt-Rotor programme is up either for "stretch out" on reduced fund-ing, or possibly even outright cancellation.

Such a situation has caused a political furore. The entire US Joint Chiefs of Staff are in favour of retaining the pro-gramme, while a "Sense of Congress" resolution passed on Capitol Hill a few weeks ago also urged retention. The bat-

The battle to save the Titt-Rotor may rumble on for many months

tle to save the Tilt-Rotor is thus a major political issue, that seems likely to rumble on for many months.

Recognising that the original

programme of more than 600 aircraft for all the US armed forces is now unlikely to be sustained, at least in the origi-nally envisaged time-scale, the US armed forces are collec-tively lobbying for at least retention of the flight test programme and continued limited development, against the time when there is a more favourable financial climate for full-scale development and pro-duction. It is being argued that the V-22 Osprey represents a major breakthrough in US aerospace technology that can-

not be sacrificed. It is pointed out in Washing-ton that various other pro-grammes have been placed in the past under similar threats of elimination — the joint

rier jump-jet fighter for the US Marine Corps is a classic example - but have survived through intensive lobbying. The mood in the Congress is that the Tilt-Rotor, because of its long-term military and com-mercial significance, is another venture that, although an obvious target for defence budget cuts, may well survive.

What may well help this situation is that other countries are also showing interest in the venture. In the UK, British Aerospace has a contract to exploit the V-22 for military purposes in Western Europe.

In the US, the use of Tilt-Rotor type aircraft in commer-cial operations is not being overlooked. The US Federal Aviation Administration has shown particular interest in it as a way of taking passengers from one city centre to another, avoiding congestion at airports, and it has encouraged various studies of larger Tilt-Rotor craft as possible future passenger vehicles.

Overall, though, the concept must depend upon military development, so as to prove its overall technical viability. For this, the aerospace industry and the armed forces, and many civilian air transport users, are united in fighting for the retention of at least a minimum Tilt-Rotor development programme, so that one of the greatest breakthroughs in US aerospace technology is not sacrificed on the expedient altar of short-term budget cuts.

Michael Donne

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ing a relatively conventional

centre-fuselage structure of titanium composite material, and a nose cone of carbon reinforced with silicon carbide

to withstand the heat of re-Flight reports that Mr Bond

has designed a new engine

called Satan, "capable of

launching a significantly increased payload into space".

Satan, it is said, is not covered

by the patents held by

Rolls-Royce, now designated

appear to be scarce. British Aerospace itself apparently

rules out collaboration with

the US National Aerospace-plane (NASP) programme, a

joint venture of NASA and the Department of Defence, on grounds that NASP is a tech-

nology programme having no

pretence of developing a cost-effective launch vehicle.

Nevertheless, NASP shares

with Hotol such features as

But potential collaborators

the RB545 engine.

David Fishlock on the history of the space launcher project

Changing shape of Hotol

emerged with the Farnborough Air Show of 1984, as a horizontal take off and landing space launcher powered by an inge-

nious new engine. The angine, designed by Mr Alan Bond, of the UK Atomic Energy Authority's Culham Laboratory, melded air-breathing and rocket propulsion systems for a smooth transi-tion from one to the other.

For the next three years, Rolls-Royce and British Aero-space co-funded phase one of the development, proof-of-conthe development, proof of con-cept, aided by 50 per cent gov-ernment support. This brought the idea of a re-usable launcher to a point where the partners might credibly solicit large-scale government funds for a further two phases.

For instance, Rolls-Royce— helped by Mr Bond himself, seconded part-time from his own laboratory—explored

own laboratory - explored ideas for an engine which behaves like a conventional jet for the first few minutes of flight then passes through a tricky transition stage where stored oxygen boosts the thinning atmospheric air, to an altitude where it becomes pure rocket wholly dependent on stored oxygen

Section 1

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The air being entrained at Hotol's envisaged speed would become very hot, creating combustion problems, so the engine development team had to demonstrate convincingly how heat exchangers could keep it sufficiently dry and cool. This led to more patents.

By the end of 1967, the partners were convinced that the concept could fly, and began to solicit government backing for phase two - rig testing of key Hotol features - at an esti-mated cost of about £6m aniece for engine and airframe. But it flew into a new government policy of rigorously testing all pleas for technological support against an evaluation of the opportunities and risks of the

market-place. The office of the Government's chief scientific adviser seriously questioned claims being made for Hotol as an univalled and highly economic opportunity to put Britain in the vanguard of the space launch business. The essence of these claims is that Hotol would launch a 7-10 tonnes payload into low earth orbit at only a fifth the cost of expendable rockets, or a 2.5-3.5

CONCEPT of Hotol tonnes satellite into geostation-sed with the Farnborough ary orbit at balf of current

The Government's analysis showed that, even if the engine worked as well as was claime there would be a market for fewer than a score of the launchers, and scant scope for spares, normally a large part of

Hotel is now longer and sleeker, with an Increased wing sweep

the aero-engine business. In July 1988, Mr Kenneth Clarke, then Trade Secretary, told Par-liament that the scale of funding required "to develop Hotol or any similar project to even-tual production would be far too great for the UK to confemplate on a national basis, par-ticularly since only a relatively small number of such launch vehicles are likely to be required."

Mr Clarke urged Hotol's pro-ponents to find international collaborators. He promised support for the diplomacy but offered no cash towards phase two of development. His chief, Lord Young, Secretary for Trade and Industry, then amounced that the civil space budget would remain constant at about £130m a year, and the Government would continue to be "selective" in the projects in which it participated. Opti-mists had hoped the Govern-ment would double its space

It then came to light, in August 1988, that Mr Bond had already sold his interest in the Hotol engine that they had

the X-30, is the most advanced, with 5,000 people already working on it, with \$1.5bn

already spent by government and industry over the past three and a half years, and with "several billions"

required over the next five

The NASP programme is

designed to produce a research vehicle, about the size of a Boeing 727 airliner, for flight

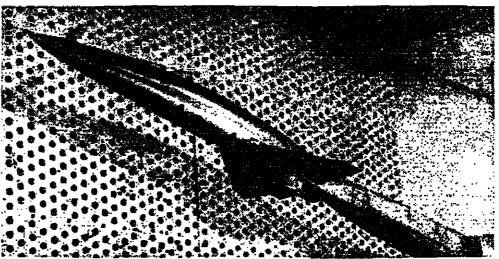
and cruise at 4,000mph.

If this proved successful, it could lead to a whole family of

such vehicles of differing sizes and speeds. As well as provid-ing passenger services, these could have a military use as

been exploring together, to Roils-Royce, which now owned both the original patent and others applied for while Bond was seconded to work with the company. Rolls-Royce said it was trying to get these patents declassified by the Ministry of Defence to facilitate international discussions on collabora-

Mr Bond responded to the disclosure that he had already relinquished at least some of his rights with an announcement that British sources, which he did not specify) had offered to put up not £12m but £130m to continue Hotol development. He won widespread publicity, but his statement has never been substantiated. At issue then - and still - is not phase two of development, but a third phase undertaking to develop the launcher,



at an estimated £5bn-6bn, to make it fly as an unmanned system. As a manned launch vehicle, the cost would be higher still. Popular speculation focused on the still more ambitious notion of hypersonic passenger transport, although

Rolls-Royce denies that this idea ever entered into its own netration.

Hotol has changed its shape considerably since British Aerospace published the first artist's impressions. It has grown longer and sleeker, with

a wing sweep increased to 54 degrees for improved transonic

"Not vast changes, but optimisation," Flight Interna-tional reported in its review* of

tal issues has increased, and this poses two important chal-

lenges for the makers of the next SST. These are, engine

noise on take-off, and the sonic

air-breathing propulsion and launch from a runway. Hotol's "fight for life". British Aerospace is envisag-

Europe's immediate competi-tor is Hermes, a manned recoverable, re-usable spaceplane, designed to piggyback on the Ariane-5 rocket launcher. It is designed to put up to three tonnes into orbit at 460km (or a manned spacecraft of 21 tonnes into low earth orbit).

But beyond Hermes lies Mes-serschmitt-Bölkow-Blohm's Sanger two-stage space trans-port system, envisaged as flying into orbit from a European launch base. Sanger is also seen in West Germany as the basis of a potential hypersonic passenger transport system, the MBB-HST 230, flying at Mach 4.5. This is also the speed selected by Aerospatiale in France for its proposed AGV (avion grande vitesse).

The Sanger aerospace plane is intended to be powered by by an air-breathing, hydrogen-fuelled ramjet. Last December, at MBB's factory at Ottobrunn, such an engine ran for the first time, for a total of 35 seconds. The government-funded hypersonic technology pro-gramme aims to decide, by 1992, which of four engine configurations affords the best performance: a parallel of side-by-side turbojet-ramjet combination; an integrated turbojet and ramiet mounted in line: an integrated turbo-fan-ramjet; or an integrated turbo-expanderramjet with hydrogen-fuelled turbine.
In each of these four configu-

rations the turbojet would be used to accelerate to speeds up to Mach 3.5, and the ramjet for speeds up to Mach 7.
*Flight International, 25

Planning for a second-generation supersonic airliner has begun

Search for the son of Concorde

cal miles.

ALTHOUGH the useful life of the Concorde supersonic trans-port (SST), developed by Britain and France during the 1960s, is not due to run out for 20 years, the debate on what sort of vehicle should succeed it is well under way.
"Son of Concorde" should be should be supersonic, hyper-sonic, or even sub-orbital, and flying on the edges of space within the first quarter of the where the funds to meet the

Concords proved two points

that it is technically possible to design and produce an aircraft which will fly as a matter of routine 2.3 times fas-ter than the speed of sound (or 1,350mph), while cruising at 50,900ft, and able to take its place in an airport landing pattern alongside subsonic air-craft; and that there is a strong commercial market for such an aircraft, even at premium fares.

21st century.

minm fares.

The airline and aerospace industries are, therefore, confident that a second-generation SST will be viable, although they also agree such an aircraft must be bigger than Concorde (probably with 300 seats, instead of 100) to make it economic at normal, rather than premium fares. The industry's thinking is that it should have thinking is that it should have trans-Pacific range — able to fly non-stop the 6,000 nautical miles between New York and Peking, or the 6,500 nautical miles from Los Angeles to Syd-ney, rather than transatiantic

range.
Today's debate centres around what form the next

long-range interceptors. Three airframe manufacturers, General Dynamics, Rockwell, and McDonnell Douglas, and two
mcDonnell Douglas, and two
engine companies, Rockwell's
Rocketdyne division, and Pratt
and Whitney, are working on
NASP contracts.
Dr. Robert Barthelemy, enormous design, develop-ment, and production costs will be raised. Nobody, so far, has been brave enough to

table a definitive figure, but there is no doubt it will run responsible for directing the NASP programme, said: "We are looking at the beginning of NASP programme, said: "We are looking at the beginning of the hypersonic era, with powered by conventional jet into multi-billions of dollars. Several projects are being considered. The American National Aero-Space Plane (NASP), otherwise known as

With a view to tapping this business, the company looked at a range of high-speed trans-ports, including an airliner which will fly at Mach 2.2, the

the year 2020 - 65 per cent of the worldwide traffic on

flights longer than 4,500 nauti-

'We are looking at the start of the hypersonic era, with speeds of up to 15,000mph'

speeds of 5,000mph, 10,000mph, even 15,000mph." These were brave words, but a doubt has been cast over NASP recently by its inclusion in the list of projects to be considered for delay, or even cancellation, as the Bush Adminis-

tests by 1994-95. Powered by hydrogen, it would take off from a conventional runway, climb quickly into earth orbit, tration seeks to lop \$10bn from the defence budget.

McDonnell Douglas's Orient Express project is providing much of the technology for NASP. It is so called because the US company's traffic forecasts show that up to 188m people a year will travel between the US and the

engines and faels; a hydrogen-powered hypersonic vehicle to fly at 3,500mph at 100,000ft; and a vehicle powered by 225,000lb of liquid natural gas cruising at 105,000ft at a speed of 3,380mph

of 3,380mph.
The latter design would fly
300 passengers between Los Angeles and Tokyo in two hours, and between Washing-ton DC and Peking in two and a half hours. There would be no windows, because of the high external skin temperature, passengers and crew relying on video displays to provide visual contact with

Supersonique Futur), designed to fly 200 passengers over 6,500 nautical miles, and the AVG (Avion à Grande Vitesse), to cruise at 3,160mph, with 150 passengers. Both have reached what the company calls "preliminary design" stage. British Aerospace has a team of about 60 people work-ing on its Hotol (horizontal take-off and landing) project, a space vehicle which would use ramjets — air-breathing engines — to power it to a height of 18 miles and 3,800mph, at which point a liq-uid oxygen engine would

Aerospatiale, of France, has

two proposals — a larger ver-sion of the Concorde, called

the ATSF (Avion de Transport

25,000mph, Hotol has been signed initially to carry payloads into space far more cheaply than the US space shuttle, but there is a longer-term proposal for it to whisk passengers from London to Sydney, Australia, in just over one hour. West Germany and Japan

are each involved in studies of hypersonic and space vehicles. Since Concorde was developed a quarter of a century

boom which every aircraft produces all the time it flies faster than the speed of sound The first problem can be overcome with what is known as a variable-cycle engine in which the flow of air through

the power plant is altered at various stages of flight. On take-off, the jet velocity would be low for quietness sake. There would be no noisy after-burning of fuel, as happens with Concorde as it gathers speed along the runway.

Sonic boom is a far more intractable problem. One partial solution is to fly higher, and the McDonnell Douglas

view is that at 100,000ft the pressure impact on the ground of 1lb a square foot (compared with Concorde's figure of 2.5) might be publicly acceptable. A further conundrum, referred to earlier, is who would pay for a new SST? The vast sums involved can only be met by an international consortium, consisting of the US, Britain and other Euro-

pean countries, and possibly Japan. Within a few years from now, the National Aero-Space Plane, the NASP, will almost certainly turn into the World Aero-Space Plane - the

We never forget whose promises we're keeping.

1ay

She's on her way. The promise of a happy trip pinned onto her dress. A favorite doll for company. When she gets there, it'll be smiles and hugs and "How you've grown!" She'll show her shiny new wings and tell what it was like to see the world so small. Sometime tonight, she'll call home. You'll know your promise was kept. GE Aircraft Engines Keeping the Pramise

THE ELECTRONIC flight-simulator sector of the world aerospace industry, worth at least £350m a year for big civil aircraft simulators and much more when military markets are included, has been transformed over the past year. with changes in the ownership

of several companies. Simulators are used as training aids, to mimic on the ground the performance and operating characteristics of military and civil aircraft and equipment, such as guided missiles and command and control

They have reached a stage of realism and reliability that enables airline and military customers to re-train pilots and flight crew entirely on a simulator. This means that crew can qualify to fly an unaccustomed aircraft before setting foot onboard. Simulators can also be used to check on the proficiency of flight crew.

A full flight-simulator for a Boeing 747 jumbo passenger

airliner costs typically about £8m to £10m, and takes between 14 and 18 months to build, although competitive pressures and high demand from airlines is leading to changes that could cut the production time to about a year for a large simulator.

The transformation of the corporate structure of the sim-ulator industry has come about with the purchase and sale of several of the main companies several of the main companies. The result is the creation of a virtual duopoly of two main groups of competitors. These are based on CAE, of Canada, and Hughes Aircraft, part of the General Motors Corporation in the US and the newcomer to the civil aerospace flight-simulator market.

Other, smaller, companies are still nibbling at the edges of specialised or national market sectors for simulators. Companies in this category include Thomson-CSF. of France, which has a significant

Sales have created a virtual duopoly for two main groups

involvement with the market for civil airliner simulators for customers of Airbus Industrie. The two main groups, Hughes Aircraft and CAE, are

both based in North America, but Britain remains an important manufacturing base for simulator equipment.

The British holding com-

pany, BET, sold its Rediffusion Simulation subsidiary com-pany to the US Hughes Air-



Crew can qualify to fly a different aircraft without boarding it

Purchases change the look of the simulator business

craft subsidiary of the General Motors corporation last year. The acquisition gave Hughes an instant entry into the commercial airliner simulator mar-ket. Hughes Aircraft also bought the training and con-trol systems division of Hone-ywell in December 1988. This

The Honeywell division was incorporated with Rediffusion Simulation, the US offshoot of Rediffusion Simulation in the UK, to form Hughes Simula-tion Systems, which will work on equipment for the US mili-

tary market. This is one of the three comranks is one of the three con-panies in Hughes Training and Support Systems group. The group includes Rediffusion Simulation, the UK company, and employs 7,500 people. Mr Albert Jicha, the presi-dent of Hughes Training and

dent of Hughes Training and Support Systems, said in Lon-don recently that he was aim-ing for the share of the world aerospace simulator market held by Rediffusion Simulation

to rise from its present 30 per cent to between 45 per cent and 50 per cent by the early

Mr Jicha forecast a "significant growth in flight simula-tion and pilot training over the next decade". The consolida-tion of Rediffusion and the training and control systems division of Honeywell into Hughes made the company "a leading participant in the market", he said recently.

Hughes Aircraft is already

expanding the production capability of Rediffusion Simulation to meet forecast continued growth in the market for aerospace simulators. Rediffusion Simulation is to begin assembly of its commercial flight simulator products at its plant in Tulsa, Oklahoma. Production at Tulsa is to be based on the assembly of hardware and software models, which will be built at Rediffusion's main plant at Crawley, in the UK. The first simulators will be

completed at Tulsa within

about 18 months, and will be for the smaller jet and propel-ler transport aircraft with 75 to 120 seats.

The production of simulators for large civil airliners will remain at Crawley, where pro-duction capacity has been increased by almost 40 per cent in the past three years. Mili-

Rediffusion expects orders for 35 a year over five years

tary training simulators would also continue to be made at Crawley for the UK market, where it has a 40 per cent share, for Europe and the rest of the world.

Rediffusion Simulation is also to expand on the site of the Hughes Micro Electronics factory, at Glemothes, in Scot-land. Initially, the simulator company will establish a systems engineering facility, between 30 and 40 jobs this

The Canadian company CAE Electronics is probably the hig-gest aircraft flight-simulator company in the world market, with an estimated 60 per cent of the world market for civil of the world market for civil aircraft simulators. The company bought the Link division of the Singer Company, in the US, after the American entrepreneur Mr Paul Bilzerian had broken up Singer, formerly a main competition in the flight. main competitor in the flight-simulator sector. The Link division is based at Binghampton, New York, and has con-centrated on military aero-

space flight simulators.
The US civil simulator business and the UK-based Singer Link-Miles operations were retained, and continue to be a formidable presence in the sim-ulator market. In the UK, Singer Link-Miles, based at Lancing, currently is building two BAE Harrier GR5 simulators for the Royal Air Force.

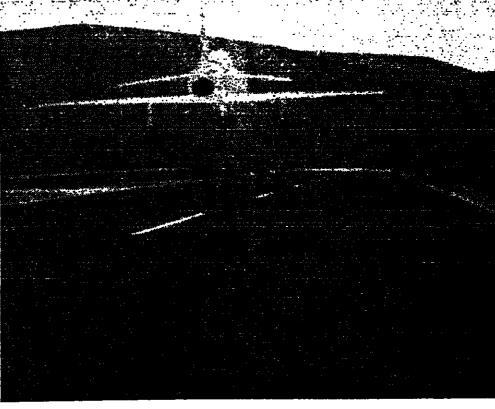
Other changes in the world simulator market include the purchase by British Aerospace (BAe) of a major stake in Reflectone, a US company which makes simulators for small airliners. BAe formed its own simulator company, British Aerospace Simulation two

years ago. Smaller companies involved in the market include Systems Designers, the UK computer software company in which British Aerospace has a stake. Ferranti and Marconi, part of GEC, are also involved in the

market With the current buoyancy in the civil aircraft market. flight-simulator companies have also done well with record orders in recent years. Last year, the manufacturers received orders for 45 full flight-simulators, the type that move to simulate the motion of an aircraft, and 10 fixed-based simulators. Rediffusion has forecast a total of about 40 orders for flight-simulators of all types this year, shared between the main manufactur-

Airliner manufacturers are forecasting continued growth in demand from airliner operators, with Boeing, the world leader in airliner sales, fore-casting a continued high rate of airliner deliveries for the

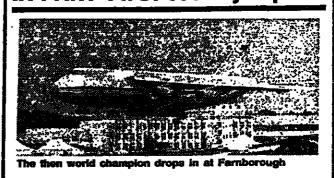
Lynton McLain



☐ Left The crew and the controls are real is an electronic litusion. The flight deck of British Airways' tatest Boeing 747-400 flight simulator was built by Reditius Simulation. Out-of-the-window scenes are created using a Novoview SP-X image generator, and presented to the pilot through 150 degrees of continuous horizontal vision, using a Suprawide display system.

Right a Novoview LCV daylight image of a BAe Hawk

IN PART TWO: country reports

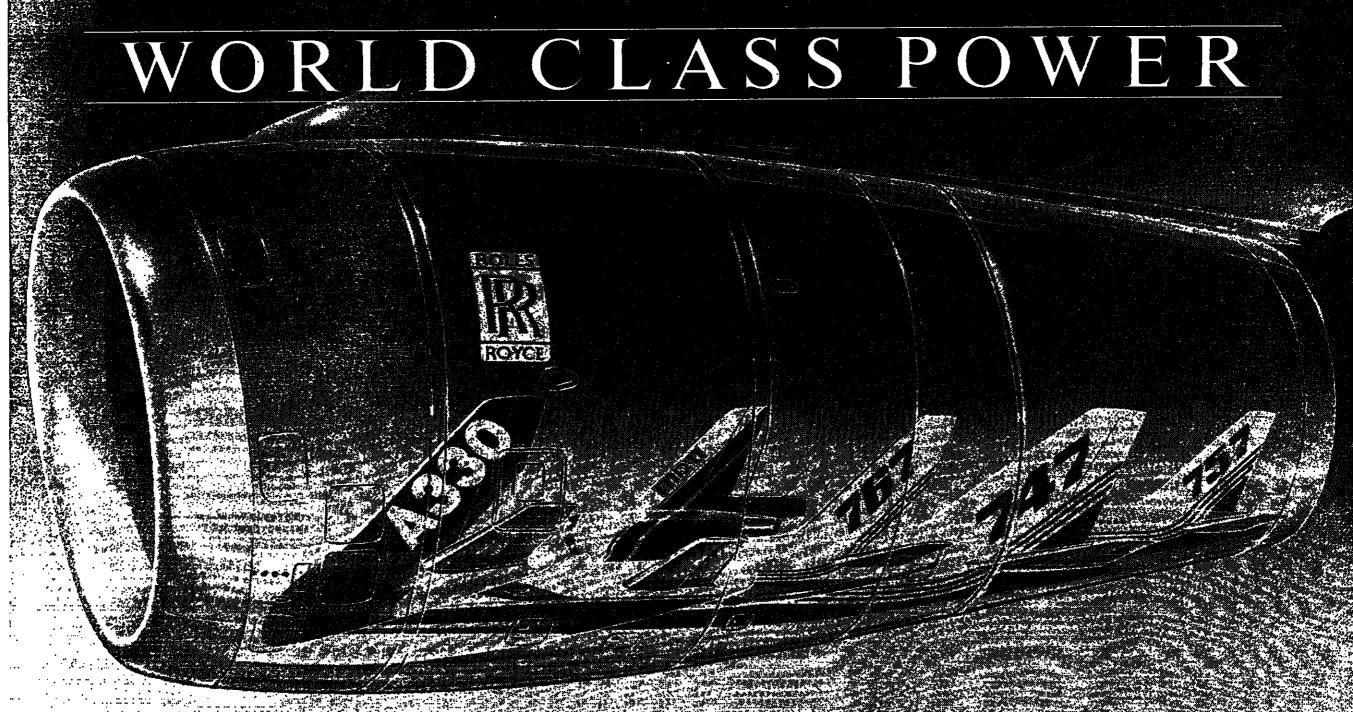


Aerospace exports top £6bn in the UK

Concern for quality in US, despite boom

Australian plans for a world spaceport

■ When the Antonov AN-124 freighter, from the Soviet Union (above), arrived at the Farnbor ough Air Show, in the UK, last September, it was the world's largest aircraft. It has since surrendered its title to another Russian-built jet. See Part Two of this survey, also included with today's FT.



The RB2II family combines innovation and evolution for operators all over the world with low cost of ownership and excellent reliability. Again and again.

The exemplary RB211-535E4, an engine which offers outstanding levels of reliability and has been selected by the vast majority of Boeing

The RB2II-524C is programmed to be the most fuel-efficient engine available on the Boeing 747-400

The RB211-524H: designed to be equally reliable, equally fuel efficient, but with a take off thrust of 60,600lb it's specified for the wide,

bodied Boding 267=300ER

And now the RB2H-524L The big burile the 1990s and beyond Thront-taining starts at 65,000fe and there's provide producted to an excess of 80,000m. If the big engine specifically designed to nower tubile long-trailers like the McDonnell: Douglas HD Ay the Authlis Addle - Securete 1860 the next tiesa ROLLS-ROYCE DELLET STEEDIED AF ROND-ORBENWICH CONNECTICUTES

MALLE REVELOPMENTS OF THE PARTY. As the prest remove of the \$127 family (dus -524). is designed to combine proven selle billty with new and even engine precis

of power. And with it Ralls Royce are leading the worlds engine in

FINANCIAL TIMES

Exports boost trade balance

THE UK aerospace industry experienced another successful year in 1988, with a trade sur-plus of £1.7bn. Aerospace exports exceeded £6bn, the highest annual figure recorded. up 7.6 per cent on the 1987 level of 25.6bn. But total aero-space imports were also high, at over 24.36bn, reflecting sig-nificant deliveries to UK air-

ines of US-built jet airliners.
Over the past three years, however, the aerospace industry has contributed more than 26bn to the UK's trade balance, and although heavy imports seem likely to continue, this positive trade balance seems likely also to prevail for some

IIK manufacturers are doing well. Figures collated by the Society of British Aerospace Companies show that, during 1988, the industry produced 279 aircraft, of which 161 were sold

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 $^{k_{i}, \ldots} + \mathbb{Z}_{i} \in$

abroad. Total export sales of new air-Total export sales of new air-craft by value amounted to nearly £800m, with another £959m in aircraft repaired or refurbished for overseas cus-tomers, while aircraft parts contributed over £1.7bn. Aero-engine and parts exports were also high, at over £1.7bn. Two of the most significant

Two of the most significant recent developments in the UK industry have been the drive to reduce costs, resulting in the restructuring of management in some companies, such as RAe; and the move by the Government to expedite the priva-tisation of Short Brothers.

BAe, which is now a massive conglomerate including the Rover motor group and the formerly government-owned Royal Ordnance factories, last year earned a record pre-tax profit of £236m on a turnover of nearly £5.64bn. For the current year, the group is forecasting a big increase in turnover to some £8bn, of which export sales will amount to more than

BAe is now ranked number four in terms of sales in the

The aerospace industry in the UK is enjoying prosperous times, with more than

half the aircraft produced last year going abroad, writes **Michael Donne**

(which now itself includes Mes-serschmitt-Bolkow-Blohm), Boeing and McDonnell Douglas of the US, and ahead of such other major aerospace compa-nies as Lockheed of the US. Aerospatiale of France, and GEC and Rolls-Royce of the

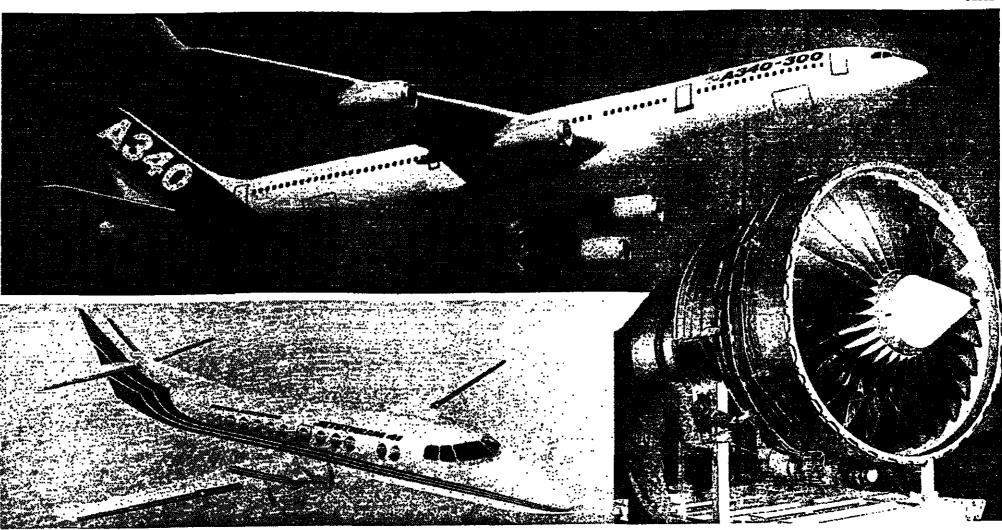
The group's rationalisation the group's rationalisation has been proceeding rapidly over the past two to three years, stimulated by the need to cut costs and improve efficiency in an intensifying competitive climate, but especially as a result of the weakness of the dollar.

The result of the latter is that the dollar revenues from civil aircraft sales do not meet the costs of aircraft manufac-ture in sterling terms. This, together with continued losses on Airbus wing manufacture, resulted last year in a loss of £49m on commercial aircraft activities, from a turnover of

2918m.
Of that loss, some £41m occurred on Airbus wing production, despite the major efforts made by BAe to cut costs (production time per wing set is already down from 74 days to 45, and is due to come down further to about 23 days by 1992, even below Boe-

days by 1982, even below Hos-ing's own wing production time schedules).

BAe is hoping that recent restructuring of the top man-agement of Airbus, including the appointment of a new chairman, Dr Hans Friderichs of West Germany, and its own



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15

Mr Robert Smith (formerly finance director of Royal Ordnance) will result in significant improvements in managemen ability, and consequently also improved operating efficiency through more competitive ten-

As part of its effort to reduce costs, BAe is now assembling its Type 125 business jet in 12 its Type 125 business jet in 12 weeks per aircraft, against 19 weeks in 1987, and has cut assembly time for the Jetstream 31 from 16 weeks to 10, and of the Type 146 four-engined regional jet airliner from 26 weeks to 12. This has enabled it significantly to cut its inventory costs, thereby its inventory costs, thereby further improving its overall

efficiency.
In addition, BAe is making significant profits from the mil-tiary aircraft and support ser-vices group, and from weapons and electronics.

The military aircraft and support side of the business is

PART TWO

already benefitting from the major new agreement with Saudi Arabia, signed some time ago (called Al Yamamah II), for the continued expansion and updating of the Saudi Ara-bian air defence establishment, including the provision of new military aircraft, and construc-

mintary anterait, and construc-tion of airfields and other infrastructural facilities. Professor Roland Smith, chairman of BAe, has said that the group as a whole can expect a "huge improvement"

France; the US; the Soviet Union; Japan

in turnover and profits stem-ming from the Saudi Arabian deal.

Some suggestions have put the gross benefit to the UK over the remaining years of this century at as much as £150bn, in the supply of air-craft weapons and support equipment over the years of service life.

Much of this will accrue to

BAe for Tornado and Hawk aircraft, and the construction of air bases. Also included will be

tine: Brazili

Australia: South Africa

substantial procurement of Black Hawk and other helicopters from Westland, with Rolls-Royce engines also heavily involved.

In the meantime, the group is increasing production of its various aircraft, including the Type 146 four-engined regional jet airliner and the Type 125-800 business jet, to meet riging demand rising demand.

The privatisation of Short Brothers is now approaching Brothers is now approaching its climax. Over recent weeks, two major bidders — a group comprising GEC of the UK and Fokker of the Netherlands, has been competing with Bombardier, the Canadian transport congolmerate that includes Canadia — to bid for the company.

pany. Their final submissions were made by April 30, and the Gov-ernment at the time of writing was assessing them. The aim is to sell the company as an entity, for the best possible price, having been obliged not

only to pick up the company's debts of £390m but also to restructure its capital, involv-ing an outlay of public funds estimated to be between £700m and £850m.

and £850m.

One of the key issues is the future of the Short Brothers proposed venture, the FJX, designed to carry 48 passengers over short ranges. Development and initial production of the production of the second state of the second state. such an aircraft is estimated to amount to about £500m. Some government launching aid is likely to be available, but the rest will have to come from the company's own resources and from any international part-

ners it may secure.

The future of such a venture will depend entirely on who takes over the company. If the winner in the contest is Bombardier, it seems certain much of the work done on the FJX will be merged into that com-pany's own New Regional Jet (NRJ) aircraft, a direct competitor in world markets to the

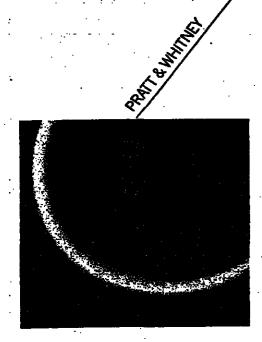
If the winner is GEC/Fokker, the future of the FJX must be would be a direct competitor to Fokker's own 50-seater Type 50 turbo-propeller airliner.

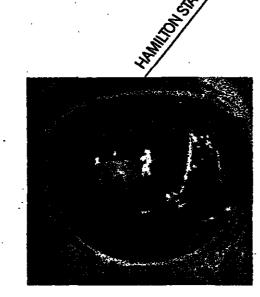
TOP: British Aerospace is building the wings for all the European Airbuses, including the latest long-range four-engine A-340 (pictured) and the medium-range twin-engine A-330.

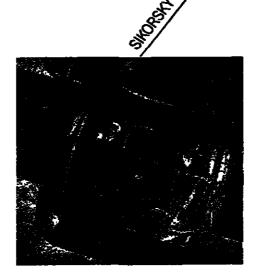
☐ LEFT: The new British Aerospace Jetstream 41 regional airliner, with 29 month, on the basis that it would win at least 400 orders mainly from the US market. BAe expects it, and the existing Jetstream 31, a 19-seater, to win more than half the US market for these sizes of airfiner.

☐ RIGHT: The Rolls-Royce RB-211-524L is the world's most powerful jet engine. Now under development, it will be capable eventually of thrusts of 80,000ibs.

The problem is a difficult one, not only for the potential buyers of the company, but also for the Government. which is committed to seeing Short Brothers continuing as a major force in the Northern Ireland economy.









The leadership of United Technologies' aerospace companies reaches from the earth to beyond the moon. Sikorsky helicopters continue to set standards for vertical flight. Pratt & Whitney jet engines and rocket motors establish new records even beyond the speed of sound. Norden radar systems monitor a world of motion. At the atmosphere's edge, Missiles and Space Systems explores fields from propulsion to optics. And finally, in the airless depths of space, Hamilton Standard systems support astronauts' very lives. We learn from each of these endeavors. And we share that knowledge among our companies to make the most of our united technologies.



Civil export orders rise as balance shifts

BOUYED BY a vigorous civil aircraft market, but dampened by the contraction of the military market, the French aerospace industry is undergoing a delicate transition period of restructuring and change.

Since the 1960s, the industry has owed the essential part of its growth and development to the military sector, which has propelled it to third place in the western aerospace league, after the US and the UK aerospace industries.

The military sector continues to account for the largest share of French aerospace industry annual turnover. But last year its share of the industry's total turnover of FFr83.9bn (£7.8bn) had declined to 57 per cent from 59 per cent of the previous year's total. In 1969, military sales still accounted for 64 per cent of the industry's overall turnover, but this was already down from the level of around 70 per cent at the beginning of the

The shifting change in the industry's balance is even more evident in the figures for new orders. Civil export orders rose especially sharply last year, accounting for 67 per cent of the industry's total export orders, compared with 57 per cent in 1987. In 1982, civil export orders had accounted for barely 20 per cent of total industry export orders, rising to 27 per cent in 1983 and 46 per cent the follow-

ing year.
This evolution was also eloquently reflected in the financial results of Aerospatiale, the state-owned aerospace group, which recently reported for the first time in its history that the turnover of its civil aerospace activities had overtaken military sales last year. The company, whose sales rose to FFr28bn last year, and whose rders increased from FFr29bn in 1987 to FFr38.4bn last year, performance in its civil side to

Indeed, apart from its share in the Airbus and ATR commuter airline programmes, Aerospatiale's civil helicopter business has also enjoyed a recovery with Aerospatiale's American subsidiary, moving into first position in the mar-ket for private helicopters in

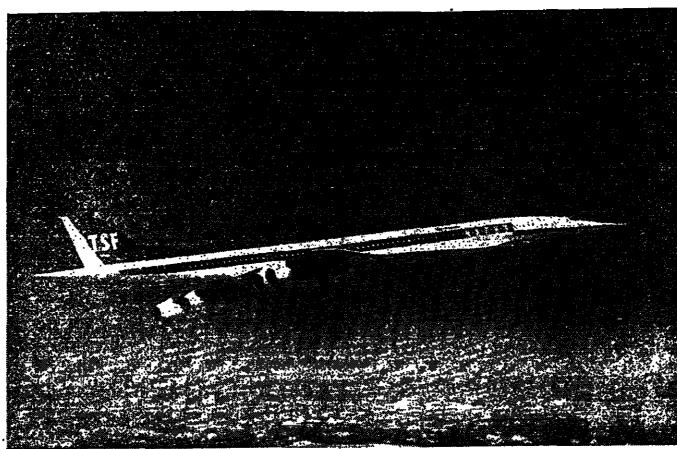
North America last year.

Airhus and ATR programmes are expected to accelerate growth in the company's civil sector. Strong demand for civil aircraft is now expected to increase the Airbus production rate to 107 Airbuses to be delivered this year, compared with 61 in 1988, and rising to 134 in 1990 and up to 200 by 1994. Thus the present rhythm of four aircraft per month is expected to double by June

Coupled with the rise of the civil part of the French aero-space business, the space sector has also continued to grow strongly with the success of the European Ariane rocket. The turnover of space activities has doubled over the last four years, and space today already accounts for about 8 per cent of the French aerospace industry's total sales. But these encouraging devel-

coments have been offset by concern over the future of the industry's important military activities. Stagnant military export orders in a highly competitive environment, coupled with cutbacks in government defence spending, have made life extremely difficult and uncertain for the military side

of the industry. The industry is now especially concerned about French government proposals to reduce the country's four-year FFr470bn defence procurement programme as part of the a general policy of budgetary rig-our. It fears that these cuts could delay the timetable for key new projects, like France's new-generation advanced Rafale fighter jet, or the new



Franco-German combat heli-

These cuts are likely to accentuate the evolution of the industry, weighing the balance even more beavily on the civil side, at the same time as heightening the need for fur-ther broad restructuring in the industry, as well as encouraging new alliances and concentrations. The difficulties of the military market have made the future especially challenging and clouded for the Dassault-Breguet aerospace group, which has traditionally relied

heavily on its military busi-

Dassault's future now hinges on the development and pro-duction of the Rafale advanced fighter jet. Although the French Government has repeatedly confirmed its com-mitment to the project, it has failed so far in its efforts to find other European countries to co-operate in the French programme, which is in compe-tition against the rival European Fighter Aircraft (EFA)

During the last 18 months.

Dassault has been forced to FFr5.8bn the year before. In launch a major restructuring programme, involving plant closures, in the face of the gen-eral stagnation in the military side of the business. The group, only last April, announced the closure of its factory of Colomiers at Tou-

louse.
The increasing importance of the civil sector is also having a major impact on the country's aerospace components suppliers, which saw the turnover in their civil business increase to

contrast, military sales, while remaining much larger, fell from FFr16.2bn in 1987 to FFr14.7bn last year. The French aerospace com-

ponents industry has also been in the throes of restructuring. Indeed, it has been the stage for one of the most important regroupings in the French industry so far, with the merger of the flight electronics activities of Aerospatiale with state-controlled defence and electronics group.

Among new Soviet designs is Mriya — the world's largest aircraft

The dream has varied payloads

IN THE midst of a gathering economic crisis, one industry in Mr Mikhail Gorbachev's Soviet Union is investing and innovating against the trend:

Against a background of drastic state spending cuts, and a big switch from heavy industry to the consumer sector, new projects are still coming off the designers' drawing

the Soviet reusable space shut-tle, which showed off its paces with an unmanned flight into space, around the globe, and back to earth again on auto-pi-

Then in December, the Oleg Antonov design team in Kiev launched the AN 225, or Mriya, the largest aircraft in the world, as the ultimate jumbo freighter. Capable of carrying 250 tonnes with a range of 4,500 kilometres, the Mriya makes all its rivals, like the C5 Gal-

axy, look like pygmies.
Last September, at Britain's
Farnborough air show, it was
the Soviet MiG 29 which made the biggest splash, showing off some spectacular aerobatics on its first official outing in the West, although it is several years since it went into service

And Soviet designers have been pressing ahead with test flights using liquid gases as

THE RECENT row between the US and Japan over the joint development of a military

fighter aircraft, code-named the FSX, has highlighted the

ananese aerospace industry.

fuel - first with liquid hydrofuel — first with liquid hydro-gen, and most recently with liquid natural gas.
Yet the days when the indus-try enjoyed an absolute prior-ity, along with the rest of defence-related production, are numbered. The space sector, in particular, already seems to be suffering budget cuts, and is certainly facing flerce criticism

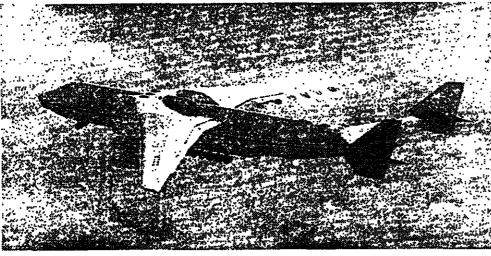
from a populace exhausted by the interminable shortages of

the rest of Soviet industry, is now supposed to be self-financ-ing - in hard currency, as well as roubles. "With the defence cuts they are planning, the survival of some of these factories will depend on exports," according to one Western air attache. "I would be very sur-prised if they do not try to Yet the same Soviet diffi-

dence about commercial pros-pects for their aircraft is true The aerospace sector, like of Mriya's designer, too.

"There are no plans to export this aircraft," Mr Pyotr Balabuyev, chief designer of the Antonov design team, said in February. "It is required for our country. Maybe we shall build another one or two of this type." His caution is somewhat

belied by the fact that illustra-tions of the aircraft show it carrying a variety of interes ing payloads - including not only the Buran shuttle, and the



The Mrtya makes all its rivals look like pygmics

major items of oil rigs and the like.

The Mriya (its name means "dream" in Ukrainian) is a stretched version of the world's former largest aircraft, the Ruslan, or AN-124, which already carried up to 140 tonnes. With six massive engines on its drooping wings, and a splayed tail-plane to help carry loads piggy-back on top of the fuselage, its test flights show it to be surprisingly man-

oeuvrable. It may be the last of its par-ticular breed, however, for Mr Balabuyev admits that the chassis design, with 32 wheels, has reached the limit of its Part of the logic for develop

ing Mriya was undoubtedly the Soviet space programme: to provide some transportation for the rocket systems, and for Buran, from launchpad to landing site, or back for repairs.

However, the shuttle programme is itself now in some loubt. Articles in the Soviet press suggest a big debate about the future. "At present, Buran stands idle," Pravda, the

Communist party newspaper, reported in January. In April, the paper again questioned the space programme, saying that "billions of roubles so vital to industry remain idle". On the civil aviation front,

there is still a lot in the pipeline. With Aeroflot, the world's largest airline, as its major cus-tomer, the industry has a huge guaranteed market. But it is having to battle with the major western suppliers to keep its dominance of eastern Euro-pean customers like East Gar-many, Czechoslovakia and Poland.

Both the new Ilyushin 96 and the Tupolev 204 are due for delivery in the near future, although Aeroflot says they are already "one or two years behind schedule".

The IL-96-300 is a wide-bodied sineraft with much better fuel economy than the present IL-86, and a range of 11,000 kil-ometres. On the international market, it is expected to be powered by Rolls Royce As for the TU-204, it will

become the new workhorse of the Aeroflot passenger fleet (the airline has 16,000 aircraft and 95,000 pilots and crew), coming into service in 1991. It will carry 50 passengers more than the present TU-154 - a total of 214 - but actually con-sume 50 per cent less fuel, according to Mr Alexei Tupo-ley the deciment

lev, the designer. That factor has suddenly and belatedly, become a crucial issue for the Soviet industry. Jet fuel is severely rationed inside the country, to maximise Soviet oil exports, and Aeroflot itself has suddenly been asked to fly 4 per cent more passenger miles this year — with the same amount of treal

THE US

Jet builders concerned over quality

aircraft-makers, but you would not know so from their deeply furrowed brows. They are far too pre-occupied worrying about how to build the striiners on their bursting orderbooks to enjoy the prospect of big profits. in fact, their concern could

be justified. Intense competition between Boeing and McDonnell Douglas, of the US, McDonneil Douglas, of the US, and Airbus Industrie, of Europe, has kept margins razor-thin — Boeing's is 5 per cent on airliners — when the costs of expanding production capacity are mounting rapidly.

McDonnell Douglas shocked Wall Street when it announced that it had an operating loss of \$66m on airliner production in the first quarter, even though

it was working at peak capac-ity. It has an \$18bn order-book, and has doubled its workforce in the past two years. But gross inefficiencies and nig-gling quality problems had swamped its production line and run up costs. A complete new team of senior managers parachuted into the company's airliner operations to try to

sort things out.

Boeing, too, is struggling to maintain its legendary high standards of quality and on-time delivery, in the face of the deluge of orders. For the first time in 20 years, it has fallen behind schedule on a new pro-gramme. The 747-400 has been delayed by many design changes and difficulties in leveloping an electronic cock-

Management throughout the industry must be trying to put the worse-case scenario out of mind: they will labour mightily over the next year or so to get back on track, and just as they manage it, the world economy will turn sour and a whirlwind of cancellations from airline stomers will clean out their order-books. For now, the makers of

airliner are still very bullish. Boeing has raised its forecast for worldwide demand between now and the year 2005 by \$100m, to \$516bn-worth of airliners. The breakdown is \$96bn of current backlog, \$125km of replacement aircraft, and \$255bn of equipment to accom-modate growth. Boeing reck-ons world traffic will grow at an average annual rate of 5.4 per cent until 2005. It believes the 1990s could be the best

decade it has ever had.

The second half of this decade is stunning enough. Boeing booked orders for 636 aircraft last year, worth \$30bn, breaking its previous record of 461, worth \$20m, set only the previous year. McDonnell Douglas booked firm orders for 246 aircraft, compared with 138 the year before. Two main trends are appar-

ent. First, airlines are graduating to higger aircraft, because of the increasing congestion of airways and airports. Moreover, larger aircraft offer cheaper operating costs per seat-mile. Second, manufacturers are not planning any big leaps forward in technology. They are going to meet users needs for ever-cheaper but more reliable aircraft with models evolving from their current ranges.

Thus, the only new model Boeing is talking of is the 767-X, a wider version of its not quite wide bodied twin jet.

Quentin Peel Farther down the road, it

IT IS boom time for US civilian might stretch the seating signaforationakers, but you would capacity for the 747-460. McDonnell Douglas is already talking to alriines about a stretch version of its MD-11, even though the base model will not make its maiden flight until this summer. Bosing shelved two years ago plans for a prop-fan airliner, and McDonnell Douglas is thought likely to mothball its version once flight testing is completed within the next two months.

The strains on the two makers of jet airliners are also showing up on their sub-contractors, although the strong demand could yet be a saving grace to Lockheed. Since it completed the HS military's completed the US military's orders for C-5A beavy transport aircraft, Lockheed's Geor-gia plant has been sadly lack-ing for work. Employees have been lent to Boeing, in Seattle, but a long-term solution would be to take on subcontracting Lockheed's problems are shared widely by other aero-

space companies heavily dependent on military orders. After the spendthrift defence budgets of the early Reagan years, relative austerity is being imposed by President Bush and Mr Dick Cheney, his new Defence Secretary.

One of the biggest losers so far, Northrop, is likely to be joined soon by Grumman. Northrop has had to accept a year's freeze on development of the B-2 Stealth bomber, partly because of budget constraints. because of hudget constraints, but mostly because of continuing technical problems with the ultra-high technology air-craft. Once they fly, the bombers should be virtually invisi-ble to radar, but, at more than \$500m a piece, they are loom-ing very large in the budget. The chances are high that the air-force will buy far fewer over a much longer time than Northrop had planned.

Grumman could be even worse off. The Pentagon is very close to deciding to cancel further production of its F-14 fighter aircraft, a move which would devastate the company and the area around its eastern Long Island plant.

Helicopter-makers were even harder hit by Mr Cheney. Of five major programmes in the Pentagon, he recently can-celled two, scaled back two more, and told the army it had to find money elsewhere in its budgets for the fifth

The biggest helicopter can-cellation was of the Bell-Boeing joint venture to build 600-to-700 tilt-wing V-22 Osprey aircraft at a cost of \$26bn for the

Marine Corp.

Although helicopter-makers are enjoying some revival of the civilian sector and are booking their best exports in years, they will not be able to compensate fully for the dras-

tic military cuts. In contrast, the general avia-tion sector is just beginning to pull out of a slump stretching back for some makers to the 1970s. Last year showed the first very modest increase in shipments of piston and jet engine aircraft for years.

Piper has the most remark-

able recovery story. It shrank from 8,000 employees, in 1978, to 750 last year. But under the new private ownership of Mr Stuart Miller, it is bouncing back and will double its delivery of small prop planes to 600

Roderick Oram

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Japan will foot the bill for the FSX joint project, but will gain valuable experience from it

Partnerships policy is likely to continue

The two countries now look set to go ahead with the proj-ect on terms that allow each themselves. The industry was forced by the Government to accept a joint venture for the sake of Japan's relationship with the US. Nevertheless, Japside access to substantial areas of the other's technology, and give to the US 40 per cent of the development and production work on a plane that will be paid for entirely by Japan. The Japanese aerospace

anese aerospace companies stand to gain valuable experience from the FSX project.
US aerospace executives in Tokyo say Japan's aerospace still lags behind America's and Europe's in technology. But it has been held back from joining the front-rank, not mainly

by a lack of technology but by a lack of markets. The domestic market, crucial to the development of key Japanese export industries such as cars and electronics, has so far proved too small to sustain a fully-fledged independent Japanese aerospace industry. The indus-try puts the estimated cost of entering into head-on competition with US makers, by producing a family of passenger jets, at around \$30bn.

As a result, Japanese companies — led by the multi-divisional heavy industry groups, including Mitsubishi Heavy Industries, Ishikawajimaharima Heavy Industries, Kawasaki Heavy Industries and Fuji Heavy Industries — have instead relied on partnerships with foreign companies, almost all of them American, in both the military and civilian fields. They are likely to continue to do so - despite the argument

high costs of a large indepen-dent venture. Nevertheless, they are more likely than before to opt for independent development in smaller-scale Japan has produced planes from US designs since 1954,

honing production engineering skills that are considered as good as any in the world. Boeing, the world's largest plane-maker, buys parts from 200 Japanese companies, including Mitsubishl, which makes fuse-lage and wing sections. It is a commonplace in the aircraft industry that F-15 planes, built under licence in Japan, are more reliable than the same aircraft made in the US. The Pentagon has sent out teams to Japan to learn about quality Japanese companies have

made no secret of their desire to make the leap from produc-ing civilian planes under licence to independent develop-ment. The Ministry for International Trade and Industry said 20 years ago, in an industrial policy document, that zerospace would be a future pillar

for the economy.

However, the ministry's ambitions have yet to be fulfilled. Japan independently developed a commercial aircraft in the 1960s - the YS-11,

a 60-seater - but only 182 were sold. MITI has, since 1977, financed the development of a STOL - short take-off landing - plane, which completed test flights earlier this year but will not be put into production, mainly for lack of potential

Japanese companies say it takes a long time for a new-

opment programmes and increasing the supply of com-ponents to foreign makers. Three groups — Kawasaki, ish-Three groups — Kawasaki, ish-ikawajimaharima and Fuji — belong to an international consortium to build the V2500, a jet engine for 150-seater planes. Also, Japan is a minority partner in a project to build a new Boeing, the 150-seater 7J7, and

GROV	TH IN A	RCRAFT JAF	ANESE PRO	DUCTION
	Total (Ybn)	Military %	Domestic civilian %	Export %
983	345.9	76	11	13"
984	434.2	82	8	10
965	543.4	85	7	8
986	505.1	83	8	8
987	540.5	80	11	9
988	536.8	78	11	11

comer to acquire enough credibility in the international market to make a commercial success of making civilian air-craft. So, for another 10 to 15 years, Japan is most unlikely to develop independently a large let with 100-plus seats. It might be possible to build a smaller plane, but only if there was sales potential for it.

As a result, Japanese compa nies are concentrating on two areas - expanding joint develis separately looking for US and European companies to share the cost of developing a 75-seater, the YSX. in each case, Japan's present

and future partners are aware of Japan's track-record in capturing world markets from western companies. But so far this has not prevented them co-operating with Japanese companies out of fear of losing a technological lead. However

technology to themselves. For example, in the V-2500 project, Japanese companies manufacture relatively low-tech parts, such as the low-pressure engine blades. The high-tech high-pressure blades come from Rolls-Royce.

been careful to keep the details of some of the most sensitive

Engine technology is one of Japan's weakest areas in aerosapan's weakest areas in aerospace — the most powerful domestically-developed engine, produced by Ishikawajimaharima — has a thrust of 5,000 pounds against 25,000 pounds needed for a jet fighter and 60,000-plus for a jumbo jet. This leaves component supply - the least glamorous but also the largest and most prof-

itable part of Japan's civil aerospace industry. Boeing's widely-publicised order backlog has brought a surge of orders across the Pacific, orders across the Pacific, stretching well into the 1990s. As the FSX project shows, Japan has developed advanced technologies in the fields of avionics and high-technology materials, including fibre-plastic composition. tic composites.

Japanese engineers will then continue to dream of designing and developing their own machines from scratch. But their employers are certain to make sure that their energies are directed towards making improvements and modifications - sometimes radical often not – to blue-prints drawn up elsewhere. That will be less exciting, but almost certainly more profitable

Stefan Wagstyl

industry will not be completely satisfied with the scheme, since contracting companies originally wanted to build the whole aircraft from scratch

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China buys overseas but plans to become self-sufficient

try, say western analysts. The country is also being held back in its attempts to modernise and enlarge its fleets of civilian and military aircraft, air fields, air traffic control systems, munications networks, and radar and navigational equip-

"The Chinese have a very big programme to update the whole system, but the scale of the problem is vast," says one western diplomat. "China is trying to do in 10 years what it trying to do in hy years what it has taken the US and Europe 50 years to accomplish. The problem ranges from bringing aircraft up to standard, right down to having enough taxis and baggage trolleys at Peking airport."

The country's economic modernisation drive has not only opened up the country to

only opened up the country to more air travel than ever before, but has forced both the civilian and military aircraft makers to become more profit-oriented. As a result, both sectors are seeking to develop more sophisticated planes in order to cope with the soaring volume of domestic and foreign

"The Chinese are seeking to get whatever they can, from whoever they can, with the

have adopted a three-pronged approach, with plans to purchase more foreign aircraft, lease more planes, and produce

their own.

Although the long-term goal is saif sufficiency, the Chinese are buying foreign planes and making use of foreign assis-tance until their own industry catches up with international standarde

The Civil Aviation Authority of China (CAAC) is expanding its fleet by modernising and replacing its ageing Tridents and Soviet Hyushins with

Between now and 1998 CAAC is expected to purchase about 90 long-range aircraft, twothirds of which are foreign. Most orders have been placed with Boeing and McDonnell

In addition, Air China, the Peking-based airline of CAAC, is leasing Boeings, Tridents, and aircraft made by British

more combination passen-ger/freight planes and recently acquired a 747 freighter to cope with the dramatic increase in air cargo traffic.

"Aircraft manufacturers

FINANCIAL, bureaucratic and logistical obstacles are hindering China's efforts to ungrade its aircraft and aviation industry, the Chinese space industry, the Chinese geared up. They don't have the technology to go into large-

scale production of airplanes."

Most Chinese civilian aircraft are produced in the provincial capitals of Harbin, Xian, and Chengdu and are not long-range aircraft. The Y-12, a short take-off and landing transport plane, is one of the first to be mass-produced and

Many Chinese planes are based largely on Soviet models and do not incorporate modern technology and the higher productivity rates necessary to turn out airplanes in large

China's first move to acquire the technology for building modern planes on a large scale came with the establishment of a joint venture in Shanghai with McDonnell Douglas. The joint venture is making 25 MD-82s, to be divided between China Eastern Airline in Shanghai and China Northeas-

tarn Airline in Shenyang.

The Chinese are also seeking to develop a trunk liner programme: 160 to 200 passenger planes would be built in China to international standards with foreign assistance. McDonnell Douglas and Boeing are reportedly the main competitors for this project which is likely to

produce a plane similar to the MD-80 or a Boeing 737 or 757. make a decision this month about the kind of plane to be

promiced.
"If the Chinese invest in this, they will not be buying planes for their domestic fleet," one source said. "This is a big step towards becoming a modern

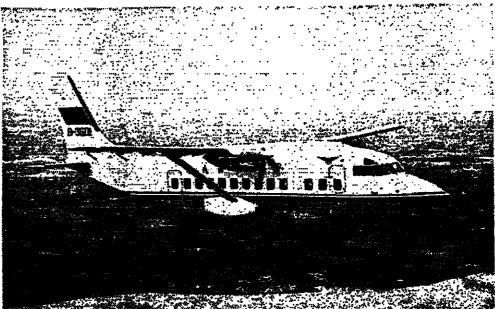
industry."

The Chinese are also develoring their support and main-tenance systems and have signed joint venture agree-ments recently with Air China and Lufthansa to help modernise the maintenance and overhaul base at Peking's capital airport. The ultimate goal is to enable the Chinese to take over the bulk of the maintenance work that is currently subcon-tracted to other countries.

With the creation of three new companies to produce attempting to manufacture air-craft equipment for the international market. Aviation experts said the Chinese should be able to break into the aircraft parts market, but are likely to find tough competition from Western engine

makers.

The Chinese are already increasingly producing components for foreign aircraft companies. The Xian Aircraft Man-West Germany, France, Can-ada, Raly, and Sweden in the



The first of eight Shorts 360 36-east sirliners ordered by China's Civil Avistion Administration

ufacturing Corporation makes tail fins for Boeing. According to the China Daily, the official English language newspaper, aircraft parts worth nearly \$37m have been delivered to customers in Britain, the US,

past three years. But the civilian airlines are not the only ones attempting to expand and renovate their Chinese Air Force is also using foreign assistance to modernise its aircraft. As the Chinese

serious problems. In many areas of communications their technology is decades old, and their understanding of techni-cal concepts is limited. Quality tories are unable consistently to turn out exact duplicates of aircraft components.

older F-5 fighters, they have

updated the F-7 with British avionics and sold it for export

to other developing countries. The French and Italians are

currently in a bidding war to

win the contract to improve the A-5, a ground attack

Difficulties have also arisen because the industry is comprised of planes, with often incompatible technical systems, made in both Western and Eastern European coun-

helping the Chinese to make the F-8, a high-level intercep-

tor, into a more viable fighter.

unusual policy of making the

military pay for its own defence budget. This has led to a variety of money-making

schemes. Aircraft factories

often manufacture consumer goods in addition to parts for

planes. The air force itself has

begun operating commercial airlines for civilians and even charters Canadian-made Boe-

ings to the international medi-

Even so, the Chinese face

cal rescue group SOS.

The Chinese have an

"The Chinese face the terrible problem of introducing a 1989 airline system into a country which is 30 to 40 years behind," one diplomat said. "Even if they buy more planes, they can't handle them."

WEST GERMANY

Daimler waits for takeover to be cleared

THE WEST German aerospace industry stands at a crossroads. The country's partners in the US and the rest of Europe are watching with a

tion, to see what direction it will take. The proposed takeover of Messerschmitt-Bölkow-Blohm (MBB), the largest West German aerospace group, by Daim-ler-Benz, the motor and engi-neering conglomerate, would drastically change the indus-

try's competitive position for the 1990s and beyond. It would enable West Germany to take a higger role in co-operative aerospace projects which, up to now, have been led almost automatically by Britain or France. This applies to ventures such as the Airbus, the European Fighter Aircraft (EFA), the Franco-German anti-tank helicopter and avionics collaboration in areas such as radar. Mr Edsard Reuter, the Daimler chairman, and mastermind of its diversification strategy, has spoken of Daimler-Benz challenging British Aerospace for leadership in the electronic great and the contract of the cont for example in the EFA.

The takeover of MBB would give West Germany a bigger role in co-operative aerospace projects which, up to now, have been led by **Britain or France**

• • • •

والمستحدد

The Daimler-MBB deal must still be spoken about in the conditional because the Bonn conditional because the Bonn government is in the throes of deciding whether it can go through. The Federal Cartel Office ruled in April that the takeover would give Daimler a market-dominating position in armaments. In view of MBB's activities in other high technology sectors such as transport. ogy sectors such as transport, the Cartel Office also voiced unease about the likely increase in Daimler's economic might in civilian are applies particularly to the con-centration of government research and development funds which would be put at the Stuttgart-based company's

disposal.

The takeover, which has been discussed for more than two years, has whipped up a political squall both within and outside Chancellor Helmut Kohl's beleaguered centre-Right coalition. However, assuming Mr Helmut Hauss-mann, the economics minister, in the autumn decides to over-rule the Cartel Office's objections, Daimler-Benz would become one of the world's largest and most diversified defence technology concerns.

Daimler Benz, which in

recent weeks has stepped up lobbying and public campaigning in favour of the deal, has already taken a step towards preparing to digest MBB.

Mr Reuter points out it was the Government's idea in the first place for Daimler to take over the industrial reins at MBB to rationalise West Ger-

many's participation in Airbus. And the Daimler chief has launched a strong attack on Bonn's foot-dragging over the

abroad over the Federal Repub lic's entire posture on defence and Nato. Doubts about Bonn's commitment to military ventures have arisen as a result of parliamentary opposition to the EFA project. Sales abroad of the Anglo-German-Italian Tornado aircraft have also

ing. In May, Daimler set up as an operating subsidiary Deutsche Aerospace, a company with initial turnover of DM7bn (£2.2bn), to group its existing activities in the aerospace and defence fields.

These centre on the aeroengine manufacturer Motoren-und Turbinen-Union (MTU), the electronic systems operations of the AEG electrical group, and the Dornier aerospace company, the smaller rival to MBB. If the Bonn government overcomes the political hurdles and approves the MBB acquisition, the Ottobrunn-based group will be added to Deutsche Aero-space – and the subsidiary's turnover will double to around

DM14bn.
Daimler has three sims. It wants to consolidate the MTU, Dornier and AEG operations brought under the Daimler wing in 1985. The company has discovered that these are too small and fragmented to give Daimler overall international

Mr Reuter wants to secure the motor group's future as a broad based high technology concern. Aerospace will offset concern. Aerospace will offset a likely levelling off in Daim-ler's cars and trucks business in cousing years — and will also, according to Mr Reutsr, provide important technologi-cal "synergy" for the rest of the group's activities. Lastly, Mr Reuter argues persued yelv that only a group

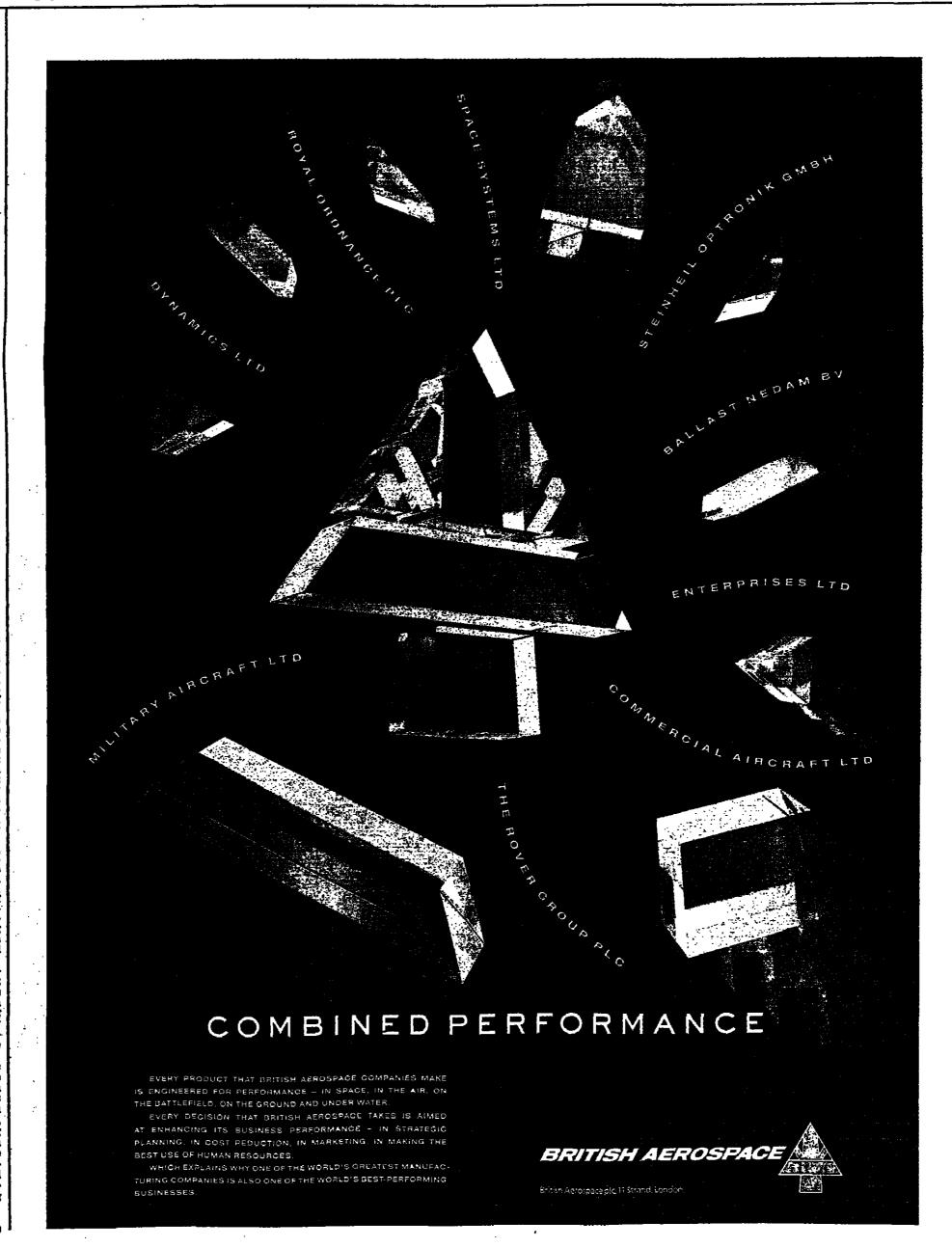
persuasively that only a group run on private sector princi-ples can make a success of the Airbus venture, in which West Germany, through MBB, has a 37.9 per cent stake. MBB, at present majority owned by three West German states, has a reputation for sound technol-oxy but chaotic management. ogy but chaotic management. It is badly under-capitalised by international standards.

With no shortage of cash, and protected from unfavoura-ble share price developments by the Deutsche Bank, which owns 28 per cent of its equity, Daimler-Benz is talking of injecting DM5bn into the capi-tal resources of Deutsche Aerospace. Mr Reuter says patting Daimler's aerospace activities on to a sound footing could

take five years.

British Aerospace and Aerospatiale say they welcome - at least for the moment - the prospect of a stronger German aerospace industry emerging under the Daimler wing. They believe this will help the Euro-pean industry stand up to the US in worldwide competition.

A Daimler motor, defence and aerospace conglomerate with a turnover of more than DM80im will be in the business not only of co-operating with the rest of Europe – but also, potentially, of competing against it. Particularly in France, whose own zerospace industry is suffering from frag-mentation, the Daimler deal could provide a powerful reason for restructuring in coming

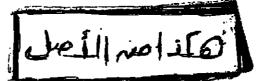


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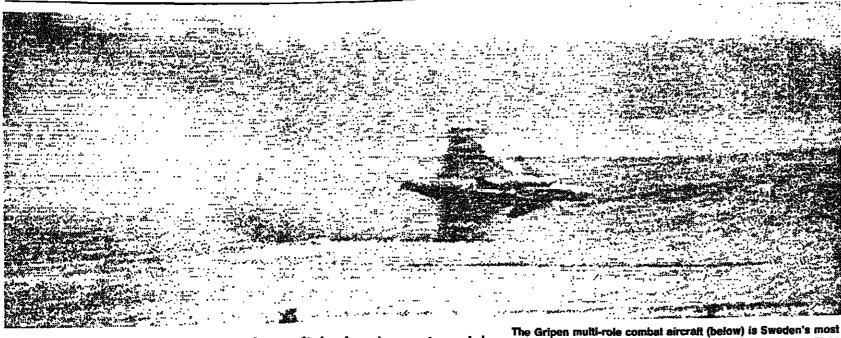




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BOEING



Sweden's new combat aircraft is in deep trouble but prospects on the civilian side look brighter

Fighter's problems cast a long shadow

THE SWEDISH aerospace industry based on Saab-Scania, is going through a diffipresident Mr George Karnsund told its annual meeting at the end of April. operations in the aircraft division are at present characterised by a measure of

uncertainty.
The crash in February, during a test flight, of the JAS39 Gripen multi-role combat aircraft has worsened SaabScania's troubles. The Gripen is Sweden's biggest and most ambitious defence project, and it has aroused widespread national controversy since its inception. It is being built by a consortium made up of Saab-Scania along with Volvo Flygmotor, Ericsson Radar Elec-tronics and FFV Aerotech.

What happened in February was simply the latest chapter in the depressing story of an aircraft aiready a year and a half behind schedule, due mainly to the problem of the software in its advanced flyby-wire flight control system. An official inquiry into the accident has yet to report, but preliminary findings suggest a structural fault. The project is faced with an escalating bud-get that already totals more than SKr42bn (£3.9bn), and this

looks likely to increase. The JAS consortium is seeking an extra SKr7bn to cover



ambilious defence project - but its crash on a test flight

delivery of the second batch of 110 planes scheduled to be ready by 1993 to 1995. However, there now seems little likelihood that the first JAS39 Gripen will become operational by

the planned date of 1992. The Swedish air force still has an order for 30 of the new planes, with an option for a further 110 to be delivered by the end of the century. However, there are genuine differ-ences of view about the Gripen project within the Swedish defence establishment, espe-cially as the rising cost has put added pressure on the budge and means that the needs of the army and the navy are not receiving the high priority many would like to see. The Gripen won't actually make a profit until at least 300 of the planes have been built and sold. There are officials in the Ministry of Defence who have raised the possibility of buying a foreign alternative to Gripen,

notably the American F-16. However, the future of the plane is vital to the credibility of Sweden as an armed neutral country that can remain relatively self-sufficient in its defence requirements. The cancellation of Gripen would inflict irreparable damage on the whole industry, which is why such a decision still seems unlikely to be taken except as a last resort. Indeed, it would spell the end of Saab-Scania's entire aircraft production, for the company has made it very clear that the future of its civilian aerospace activities are

closely linked to the military

For its part, the consortium remains hopeful that the Gri-pen will eventually find a profitable market beyond Sweden among smaller countries who would find such a light, versatile and easily maintained plane ideal for their defence needs. A number - including Austria, Finland, Norway, Denmark and Switzerland - have expressed an interest in the Gripen in the recent past, though the delays and the crash may well make the Gripen look a less attractive buy

for them.
In addition, the export opportunities appear to have been thwarted until now, because of the lack of a decision from the Swedish Government in giving the go-ahead for the development of a two-seat trainer version, the JAS-39B, which might find a more lucrative market

On the civilian side of the business, the outlook looks rather more promising for the Swedish aerospace industry. Saab-Scania remains the leader in Europe in the medium-sized aircraft market with its 340, which also has a strong competitive position in the US.

The company claims to have 30 per cent of the world market in that particular aircraft class alongside Embraer, the Brazilalongsine Emblact, the brailland of Canada. Today, Saab 340s fly with as many as 28 operators across the world. It has certainly proved to be a great success, and with annual sales now totalling about SKr2bn, is one of Sweden's largest single export products.

Last year, the company delivered 28 of the turboprop airliners and took orders for 45. Saab-Scania has been manufacturing the two-engine propeller plane with room for 35 pas gers since 1984, with a 340B version which has a more pow erful General Electric CTD-9 engine coming into operation

two years ago.
In April, the company announced that the Swiss company Crossair had agreed to

The future of the industry is in the hands of politicians

buy a further five Saab 340Bs on top of its original order for 24, with delivery next year. Last month American Eagle, the regional partner of Ameri-can Airlines, agreed to buy 100 Saab 340Bs over the next few years, at a cost of SKr8bn. At the end of last year, the com-pany revealed that it wanted to manufacture a larger 50-seat passenger version, to be known as the Saab 2000, with a speed of 650kph and a range of 1,800 km. The project is expected to cost around SKr3bn, and the company is seeking substantial government financial support

for it before going ahead.

The 2000 has already attracted some interest. Crossair, continuing to display its confidence in Saab-Scania, has placed an order for 25 of the new planes, with an option for a further 25, the cost of which should cover the whole project's spending programme. American Eagle have also announced an option for buying 50 of the 2000. The first
2000s can be expected by 1993,
if all goes to plan.

Analysts at Kleinwort Benson, in London, and Svenska
Handelsbanken both believe

that the company's aircraft year, despite the Gripen prob-lem, because of the fact that the 340 is now selling well and its development costs are now behind it. But the longer term remains problematic. Indeed, the future of the Swedish aerospace industry is now very much in the hands of the poli-

Construcciones Aeronauticas, of Spain, is moving against the tide of private investment

State cash helps climb into profit

Construcciones Aeronauticas SA (Casa), now at the halfway stage in its climb back into profits, is reviewing the advantages and disadvantages of possible future international partnerships.

Like many Spanish compa-nies, Casa is boosting its pro-ductivity, reducing labour costs and restructuring its debts to secure a better finan-cial footing. Unlike any other public company in Spain, however, Casa is at present run-ning against the privatisation grain; it is holding foreign investors at bay and is increasing state ownership.

Under a current capital increase the Instituto Nacional de Industria (INI), the Spanish state holding conglomerate, is

The strategy of public sector support suggests some bullishness about the

company's prospects

Casa from 73 per cent to 88 per cent. Northrop of the US, which at one point held 13.2 per cent of Casa, will pull out of the Spanish company leaving Messerschmitt-Bolkow-Blohm, of West Germany, the sole minority shareholder, with an 11 per cent stake.

The change in the share ownership appears to be a temporary one. The thinking at Casa and at INI is that it is preferable at this key stage in the company's return to profitability to shore up the public sector participation with a view to selling part of it back advantageously when Casa is back in the black.

Such a strategy suggests a determined bullishness about the company's short and midoptimism is not misplaced. Dornier, of West Germany, and Aerospatiale, of France, certainly thought as much, for they were among the Euro-pean companies that unsuc-

pean companies that unsuccessfully approached Casa with a view to acquiring Northrop's holding.

Chief executive Javier Alvarez Vara reckons that at the halfway stage of a three-year viability plan Casa is "slightly ahead" of the targets it set itself. The company reduced its losses in 1988 by 53 per cent to Pta6.3bn (£30m) and it experienced a 60 per and it experienced a 60 per cent increase in sales per employee. This year the aim is to break even, in order to declare profits in 1990.

The completion of the recovery programme will signal, according to Mr Alvarez Vara, another change in the share ownership for he says INI does not "have a vocation" to own so much of the company. One option that has been

aired in the Spanish press is that part of Casa could be publicly floated. The alternative is to invite in the sort of aero-space companies that have Bobert Taylor been recently rejected and to return to the traditional Casa for up to 25 per cent of the company's equity to be held by foreign pareners.

Mr Alvarez Vara, an aeronautical engineer whose youth belies a long experience in INI's top macagement echelons, would prefer a wide shareholding base and no significant foreign partners. "It is neither necessary nor advis-able," he says, "to come under under an international company orbit. We have our own niche in the market."

Meanwhile the main obsta-cle to a clear recovery is the exchange rate. Casa, which has 70 per cent of its income in dollars and 70 per cent of its costs in pesetas, is one of the Spanish companies that finds itself most exposed to currency fluctuations.

There is less concern about the future of Casa's main product, the versatile CN-235 jet, a plane which in its military and civilian versions can transport 44 passengers or five tonnes of cargo. The aircraft is the successor to Casa's highly successful C-212 aviocar, the short take-off and landing aircraft that is known as the jeep with

The other main prop of Casa's operations is its participation in the Airbus and European Fighter Aircraft pro-grammes. All in all what Mr Alvarez Vara calls "strictly plane activity". meaning the company's own product line, its participation in pan-Euro-pean projects and its manufac-ture of components, such as wing flaps for Boeing on a subcontract basis, accounts for 80 per cent of Casa's income.

Breaking down this 80 per cent "plane activity" income, 40 per cent comes from the collaboration projects against 30 per cent from Casa's own prodacts and 10 per cent from sub-contracting. The remaining 20 per cent of the company's ncome is largely accounted for by maintenance work for the US air force in Europe and,

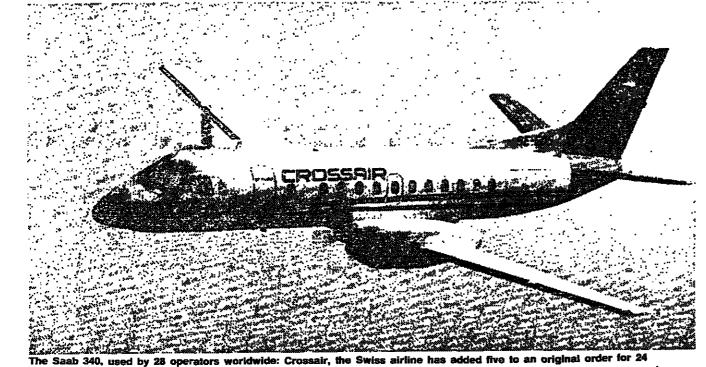
The main obstacle to a clear recovery is the exchange rate. There is less concern about the product

to a lesser extent, for the

Mr Alvarez Vara says that although Casa is a small to medium company in a medium-sized country, its strength is that it is the most aerospace-minded of all the aerospace companies, for it is wholly devoted to the sector. Such limitations are "not necessarily a disadvantage" according to Casa's chief exec-

Indeed the Spanish company's specialisation, its pro-spective financial turnabout and its presence in Euro-pro-jects, amounts to a tempting package for foreign wooers. Mr Alvarez Vara's go-it-alone personal preferences are likely to be sorely tested.

Tom Burns



Italian product development is healthy, but exports have slipped

A dynamic industry in need of a more coherent policy

THE 70 or so companies involved in the Italian aerospace industry are looking back on the 1980s as a decade of very mixed fortunes.

On the one hand, the industry has shown considerable dynamism in product development and the forging of inter-national collaborations in both the civil and the military sectors. On the other, companies are struggling to hold their shares of export markets and increasingly bemoaning the absence of a coherent govern-

ment policy for the sector.

The industry has been constantly pleading for stronger government support for its export efforts, which it feels lack the official commercial backing which many other national industries enjoy. At the same time, many companics feel that their exports are now being impeded by tighter licensing procedures, which have outlawed Italian exports

markets are, in any case, con-

tracting.
Although industry-wide figures are not yet available, results from two of the sector's key companies suggest that 1988 may have been somewhat better than the year before. State-owned Aeritalia, Italy's largest aerospace company. reported a 35 per cent increase in net profits to L68bn (£30m) on a slender I per cent rise in sales to L1.655bn. Its order book swelled significantly by 55 per cent to a total value of L4,525bn.

Selenia-Elsag, which specialises in electronic systems. has also reported some strong figures, with a net profit of L12.3bn, compared with L3.4bn in 1987, on a little changed turnover of L1.550bn. Some

If this performance reflects a general trend in the industry, then there is a possibility of a revival in Italian aerospace exports. Since they peaked at 70.5 per cent of sales in 1981, they have gradually slipped back to only 42.6 per cent in 1987. The total export sales of L2,300bn in that year was identical to the year before, while aerospace imports rose from L860bn to L1,000bn. Aircraft sales of L1,180bn established this sector as far and away the largest export earner, followed by engines (L420bn), general equipment (L400bn) and space and missile products (L300bn).

Aircraft also accounted for the largest slice (L1.460bn) of the industry's L3,100bn of domestic sales, followed by

spending, and has since fallen from 4.26 per cent of total outlays to 4.12 per cent in 1988. At 2.1 per cent of gross domestic product in 1987. Italian defence spending is one of the lowest proportions in Nato, having

decade of total government

proportions in Nato, having fallen from a peak of 2.5 per cent in 1981-83.

Research and development spending, meanwhile, accounted for nearly one third of the industry's total investment of L540bn in 1987 – an outlay that was significantly higher than the L395bn registered in 1986.

Italian companies' collabora-Italian companies' collabora-

tion with foreign partners cov-ers most aspects of civil and

European space projects, including Colombus, Hermes and Ariane.

Development projects under way include Aeritalia's work on advanced composite materials and navigational systems for unmanned aircraft; the development of a new turboprop engine at Alfa Avio; and the development of a new mis-sile defence system, which Selenia is working on with the French companies Aerospatiale and Thomson-CSF.



10 10 m

Fokker's management faces some important decisions about the company's future, says Laura Raun, in Amsterdam

Possible purchase of Shorts is most immediate concern

FOKKER OF the Netherlands is racing toward a crucial turning point. Looming ahead are vital decisions about a major acquisition, production expan-sion, an enlarged "family" of airplanes, and company man-

These decisions could determine whether the Dutch aerospace company survives as a world-class aircraft manufacturer, or is relegated to a parts-maker for others. "For Fokker, the year 1988 was characterised by scale enlargement that was important in many respects," according to the recently published annual

A dramatic turn around has followed the 1987 bail-out

Fokker has staged a dramatic turn-around from heavy losses and a financial bail-out in 1987. The bail-out, arranged by the Dutch Government and commercial banks, gave 32 per cent of Fokker to the State, pany find an international partner to strengthen its

Founded in 1919, Fokker specialises in short- to medium-haul airliners; its flagships are the 50-seat Fokker 50 turboprop and the 100-seat Fokker 100 twin-jet. With earnings of Fl 13.3m (£3.7m) on sales of Fl 2.05bn in 1988, it is one of only

five civilian jet manufacturer in the western world. The Schiphol-based company boasts of a record order-book at the moment. It has 187 firm orders and 175 options for the Fokker 100 and 98 firm orders and 32 options for the Fokker 50. Mr Erik Nederkoom, a mem

ber of the management board, believes that developing new aircraft is more important than being completely independent. Fokker is aiming to spawn a "family" of aircraft around the Fokker 50 and Fokker 100.

Of most immediate concern is the possible acquisition of Short Brothers, the Northern Ireland aerospace company that makes wings for the Fokker 100. Fokker and Britain's General Electric Company have jointly bid for Shorts, which is owned by the UK Government and is being priva-

But Fokker has increasingly played down its chances of winning Shorts, saying that another wing supplier would still be needed even if London gave the nod. British Aerospace is believed to be a front runner as a second supplier of F-100 wines.

Fokker's designs on Shorts were described initially as a defensive move, intended to ensure a steady wing supply. Shorts also was viewed as a solution to the problem of additional production capacity. Fokker urgently needs to step up production of both planes in order to meet delivery deadlines and restore credibility following persistent delays.

More recently, Mr Neder-koorn has claimed that no final assembly - only parts manufacturing - would be done at Shorts. He said less than half of Shorts' 7,600 jobs would be guaranteed - virtually ignor-ing London's demand that jobs be kept at Shorts, one of Northern Ireland's biggest employ-

Expanding production capacity thus remains a pressing problem, even if Shorts is acquired. Bad delays contrib-uted to Fokker's hefty Fi 107m loss in 1987, and deadlines were missed again last year. Only 11 Fokker 100s (and 31 Fokker 50s) were delivered in

Plans are dramatically to accelerate the Fokker 100 production tempo, so that 33 can be delivered this year. That will be stepped up to 46 by

Two options under consideration for enlarging manufac-turing capacity are: to add a second production line at SchiUS in co-operation with an American company. Lockheed, Rockwell or Grumman is most likely, and could be cheaper than the Fl 200m for another production line at Schiphol.

A new family of aeroplanes also is under consideration, because the pair of F-50 and F-100 craft are "too small a basis," Mr Nederkoorn explains. A decision is expected by late summer on a stretched version of the Fokker 50 with 70 seats.

By next year, a decision

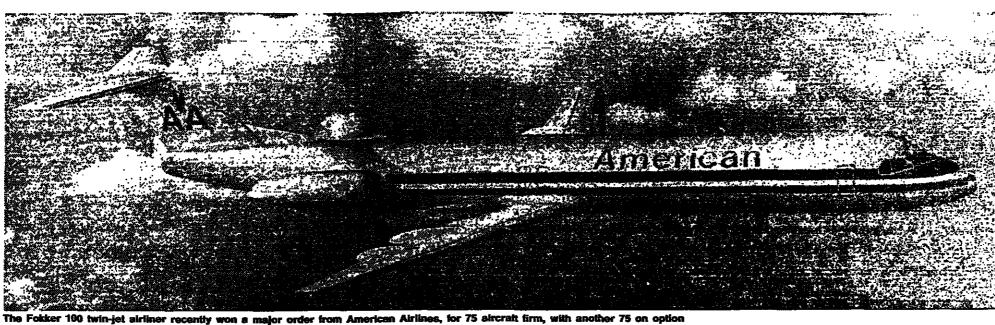
make a stretched Fokker 100 with 130 seats. Since this would compete head-on with giant American aerospace companies, sufficient market demand is essential. Corporate financing will come from either the Dutch Government or private capital markets, or from both. Fokker tapped the international equity market twice last year, but feels confident enough to talk of a third

Finally, company manage-ment needs to sorted out soon. new chairman must be named to succeed Mr Frans Swarttouw, who retired on

A new family of aeropianes is also under consideration

June 1. The board of management was supposed to be expanded to four members from the current three under the 1987 bail-out, but no moves sory board vacancy also must be filled.

Fokker is clearly optimistic about the future, predicting higher earnings for this year. Mr Nederkoor believes the company can grab as much as per cent of the market for 100-seat airplanes. "The market is not going away," he notes. There is still big interest from mega-carriers in the US."



SKY-HIGH inflation rates and a swelling government budget deficit bave still not managed to ground the ambitions of the

Brazilian aerospace industry. But the international successes of Embraer, the stateowned planemaker, cannot conceal the domestic economic crisis that is hindering the company as it tries to build and consolidate niches in the air-force trainer and smaller

Last year, an annual infla-tion rate near to 1,000 per cent and the cost of servicing the company's heavy short-term debts led to a loss of \$30m

despite rising sales of \$524m.
That situation was radically revised for the better last month, with a \$150m threephase loan from the national development bank BNDES In addition, Embraer has been authorised to sell a \$100m stake in the company to over-

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BRAZIL

Sell-off welcomed

sions of Brazil's foreign debt into equity.

While a privatisation programme has long been offi-cially in place, the permission to sell a part of a successful state-sector company involved in military work is a new and welcome precedent for the country. Embraer has been told by First Boston, the bank behind the deal, that those quening for a stake have dready over-subscribed the total available.

in consequence, its plans to develop the CBA-123, a radical new pressurised 19-seater tur-boprop, intended to replace the

smoothly. Selling options in the plane, which incorporates rear-facing "prop-push" rear-facing "prop-push" engines and is being developed jointly with Argentina, will be one of Embraer's main objectives at Le Bourget.

Mr Ozilio Silva, the mana ing director, says that, though the market is highly competitive, several \$25,000 options are only awaiting signature, and that there has been considerable interest since the marketing of the plane began at the company's Fort Lauderdale subsidiary last year. Potential sales for this class of small commuter are estiyear 2005, and the company wants to hold at least 30 per cent of the international market shared by British Aerospace's Jetstream and Fair-child of the US.

Also under discussion at the company's impressive head-quarters in Sao Jose dos Cam-pos, in Sao Paulo state, is a project to stretch the popular 30-seat Brasilia commuter carrier. Already 135 are in opera-tion with 18 companies worldwide, with a total of 416 ontions or sales confirmed at a price of about \$7m each. The stretched version would aim to raise passenger capacity

to 45, taking it into direct com-petition with De Havilland of Canada's Dash 8 among others. Embraer believes that client loyalty and ease of maintenance for existing customers will guarantee it a good slice of the market.

Meanwhile, the company is

continuing to build on the success of the two-seat Tucano air-force turbo-prop trainer.
With 633 already sold to 10
overseas customers, including
the UK's Royal Air Force, the next big contract is hoped to be France. Negotiations with Paris are under way for 85 Tucanos, and should be closed by the end of the year. Discussions have also begun

about producing a revised, more powerful version, with a 1,100 shaft hp engine, along the lines of that being made under licence by Shorts. Embraer's major \$1bn joint venture project - the AMX surface attack jet, being built in conjunction with Aeritalia and Aermacchi the first six planes already

operating in Italy. The Brazilian air-force. which has a 30 per cent stake the 300-unit project, should take delivery of the first of its

80 shortly. Over the next decade, Mr Silva's hopes for his company are: annual sales rising to between \$1.5bn and \$2bn, and consolidation in its current sectors. But he is cautious about any full privatisation of the company. "The idea has its merits and demerits," he observes, "but what we need first is much less government

A few hundred metres from Embraer, Avibras – a private-sector arms and technology company – let leak last month that it is planning to use the Paris Air Show to unveil a rains Air Show to unveil a major new commercial tie-up with China on satellite technology. Brazil has already signed a \$150m deal, in which the two countries will build up to five low or hit remote commercial. low-orbit remote sensoring units, using Chinese Long March 2 launchers and Brazil-

ian ground stations.

Avibras, together with the Great Wall Industry Corporation, controlled by Beijing's air ministry, are now to open commission, controlled by Beijing's air ministry, are now to open commercial offices in London, to market satellite services and equipment to other countries.

Executives of IAI are starting to speak of life after Lavi, reports Hugh Carnegy

Shekel's devaluation should lift exports

THE ISRAELI aerospace industry was born of the country's huge defence needs, and today it is the tightening of military budgets at home that is forcing the industry to rely more than ever on exports and to look for greater commercial

civilian sales. The dominating feature of life in the past few years for state-owned Israel Aircraft industries, the country's big-gest company, was the cancel-lation in 1987 of the Lavi jet

ghter project. IAI had already spent \$1.6bn developing two air-tested pro-totypes of what was to be the Israeli air force's new generation of sophisticated combat aircraft, when the authorities, under pressure from the US whose products it would have competed with, decided it was too expensive for Israel's small

economy to bear.

Although the Lavi was funded mainly by the Ministry of Defence, two years of heavy losses and write-offs followed for IAI as it re-organised its business after the loss of its strategic mainstay. In the same period, the workforce shrank from 22,500 to 16,000.

Now IAI executives are economy to bear.

Now IAI executives are starting to speak with confi-dence of life after Lavi. A dramatic sign of the future came last September when IAI and the Israel Space Agency successfully launched their own satellite into space, making Israel the world's eighth space This year, IAI sales are proj-

ected to reach \$1.25bn, 75 per cent accounted for by exports, cent accounted for by exports, and the company anticipates a return to profits. As well as emerging from the shadow of the Lavi, the company's export performance should benefit this year from a 12 per cent devaluation in the shekel at

the turn of the year.

Military hardware, sold everywhere from Africa to

South America, continues to dominate IAI's range of some 400 products. But the company is aiming, within the next three to four years, to increase the proportion of civilian sales to 30 per cent of exports from e present 20 per cent. Apart from the Lavi deci-

sion, the defence establishment in Israel has been under general budgetary constraint, so the emphasis on the military side at IAI is on refurbishment of existing equipment with home-produced high-technology products. IAI spends about 4 per cent of turnover annually

This year it has delivered to be Israeli air force the first of a line of overhauled US F-4 Phantoms. Called the Phantom 2000, the planes have been stripped down almost to their frames and rebuilt with new avionics, new cabling and new weapons systems.

The company boasts that the result, priced around \$8m, is an aircraft as good as new products such as the Tornado, for a third of the price. With some 3,000 Phantoms still in commission worldwide, it hopes to create a significant market in such business.

IAI is also producing a new unmanned airborne vehicle this year, marketed both for military reconnaissance and civilian use, and is striving to put to commercial use the expertise it developed in com-posites and other products for

the ill-fated Lavi.

The company has traditionally benefited from well-established links to the US military industries, both directly to the Pentagon and to the US defence contractors. It has, for example, been involved in development work on anti-ballistic missile projects under the Pentagon's Strategic Defence Initiative (the Star Wars proing a grip in Washington, and the resolution of a number of regional conflicts likely to slow demand elsewhere, there is an added onus on IAI to develop its other product lines if it is fully to realise its recovery from the Lavi cancellation. Some of these have dual mil-

important mainstays, but with

itary-civilian functions. The unmanned aircraft are marcivilian applications, for exam-

The satellite programme, too, appears to have both military and civilian apputational IAI developed the Shavit rocket, which put the Israeli orbit last September, with Raphael, a government-owned weapons research and development company. IAI has also made a booking with Arienne Espace, of France, to launch Israel's first home-developed communications satellite in mid-1993.

On a more conventional level, IAI has stepped up its commitment to its business jet. the Astra. A competitor to the successful British Aerospace 125-800, the nine-seater, 5,000-mile-range Astra has made a sluggish start in its first two years on the market. But the company says sales, totalling 30 to date, are picking up. It is banking on the erosion of trade barriers within Europe after 1992 to produce greater demand to ensure the jet's suc-

If IAI can successfully pull free from the legacy of the Lavi, it may ultimately contrib-Government is committed to slimming down the state sector and has already decided to dis-pose of a 26 per cent stake in Elta. IAI's electronics subsidiary. Other units of IAI may be picked for similar treatment if gramme). privatisation gets off the These will go on being ground in Israel.



ARGENTINA

Aerolineas' high-risk look

miportant was the conapse of a planned sale of 40 per cent of the state-owned civil airline, Aerolineas Argentinas, to Scandinavian Airlines

Aerolineas has been running at a loss for many years, and Argentina's departing Radical party government, under Presi-dent Raul Alfonsin, had hoped to bring off a sale which would have improved the company's performance. The deal was set up by Mr Rodolfo Terragno, who as public works minister is in overall charge of state-run

enterprises.
The Aerolineas sale was intended to be the flagship for sales of other loss-making pub-lic companies, which in 1988 registered a total daily loss of \$8.5m. Aerolineas is one of the better-run nationalised companies, and it was widely regarded as the easiest company to sell, given its rela-tively small scale and the increasingly internationally competitive airline market.

SAS was keen, but the deal fell through amid some scandal which has yet to be fully clarified. According to Mr Ter-

ragno, SAS was prepared to year promised to lift Argentina's aerospace and air transport industry out of its doldrums, have disappeared into oblivion, unlikely to surface for some time.

The most immediataly ragno, SAS was prepared to have paid \$204m for Aerolineas, which has a fleet of 33 craft and a staff of 10,000. However, Mr Horacio Domingorena, the then president of Aerolineas, accused Mr Terragno of hims about the deal when it orums, have disappeared into oblivion, unlikely to surface for some time.

The most immediately important was the collapse of a planned sale of 40 per cent of the collapse of a planned sale of the collapse of a planned s

The semi-privatisation is embroiled in political struggles

under the terms of the deal, SAS would in fact pay \$156m, underpricing the company in his estimation. Political squabbles then broke out, with the opposition Peronist party ref-using to sanction the deal, which was presented to Congress as required by law by Mr

On December 15, when it was clear that the Peronistdominated Senate was prepared to reject the deal, Mr Terragno withdrew it and said that he would call for new international bids for Aerolineas in 1989. So far that has not yet come to pass.

The scene is further muddled by the success of the Peronist party in presidential and legislative elections held on May 14. Argentina will have a new Per-

Mr Carlos Menem. His brother, Mr Eduardo Menem, led the fight in Argentina's Senate against the Aerolineas SAS

While the semi-privatisation of Aerolineas is thus embroiled in political struggles, it will inevitably be seen as a high-risk venture for anyone wish-ing to follow in SAS's foot-

Argentina's other major ven-ture — this time in military aviation — has also dashed initial optimism for profitable international sales. A jet trainer known as the IA-63 Pampa, under development since 1979, has so far failed to attract any buyers, despite being heavily pushed in mar-kets as disparate as the Middle East, Latin America and the

The Argentine defence ministry is still waiting for a US response, following test flights of the Pampa in the US last autumn. US pilots described the aircraft as being an excellent all-round trainer. Following such praise, Argentina hopes that it would soon see nopes that it would soon see purchase orders for as many as 600 of the aircraft, which at \$3.5m each would have reaped the country in excess of \$2bn. The project envisaged the manufacture of parts for the Pampa for American and assembly in in Argentina, and assembly in

petered out, and Argentina is now left with an apparently useful military trainer, which it cannot sell overseas. In the US, the Pampa is up against stiff competition, including the British Hawk, the Italian MB-339 Aeromacchi, the Caza 101 from Spain, and the Dornier Alpha Jet, a Franco-German production. Early this year, Mr Horacio

Juanarena, defence minister, paid a visit to Israel in an attempt to interest Israel in a deal involving part sale, part exchange of the Pampa for Mirage and Skyhawk fighters.
Argentina is keen to get hold of several A-4 Skyhawks already purchased from Israel, but blocked by the US following the 1982 Anglo-Argentine Falklands war. Israel is likely to test the Pampa this month.

With negotiations between Britain and Argentina over the Faiklands still deadlocked, and the new US administration under President George Bush abiding by the sympathetic Reagan line, Argentina is unlikely to find much success either in selling its own Pampa or in getting hold of the fighters it feels itself to need following the severe losses it sus-tained between April and June,



Consortia compete to build a launch site for the world

LIKE MOST sectors of the Australian economy, the aerospace industry is humming with debate over its future. Hot topics include the status of the international carrier Gantas, next year's end of the domestic two-airline policy, the problems of Sydney and other airports, and the state of the country's aerospace manufacturing industry.

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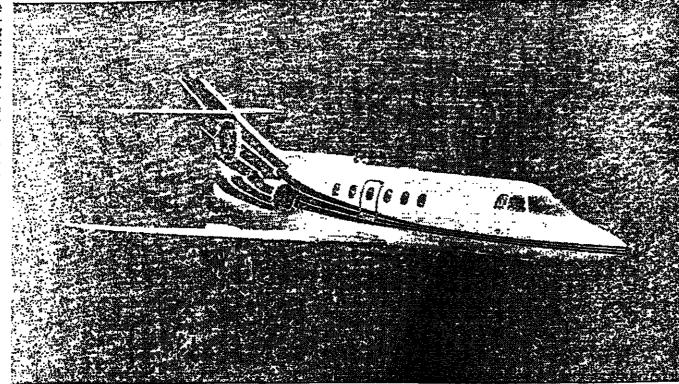
For imagination and long-range thinking, however, nothing compares with the ambitious proposal for an Australian spaceport – a giant international commercial space-launching facility, to be located at remote Cape York, on Australia's "Top End."

Owned and operated by pri-

Owned and operated by private enterprise, it would be the only one of its type in the world. The aim is to have it fully operational by 1995, and while there are some big hurdles to leap before the idea becomes reality, two different and competing consortia are currently working frantically to demonstrate its feasibility.

Their plans spring from the same assumptions — that the world needs a commercial spaceport and that Cape York is a near-perfect position for it — but they differ over what exactly is needed on site, the likely cost, and even the precise location.

One consortium, the Cape York Space Agency (CYSA), claims the backing of more than 30 well-known Australian and foreign companies and is currently led by the Essington group, headed by the entrepre-



The Siders XI, group has painted its new BAs 125-800 in the colours of one of its most popular products ~ Festers lager

neur Mr Malcolm Edwards. It includes Japanese interests in the form of Kumagai Gumi, the construction giant, and a group called Shimuzu.

The other is the Australian Spaceport Group (ASG), which brings together Broken Hill Proprietary (BHP), Australia's aluminium company which is part of CRA, the Perth-based Bond Corporation, Aussat, the Australian satellite communications company, and Martin Marietta, the US space launcher group.

largest company, Comalco, the

The spaceport idea has its

origins in the Challenger Shuttle disaster in 1986. That tragedy delayed a string of planned space launches, gave a boost to the European facility at Kourou in French Guiana, and revived a dying industry for expendable space launchers. Overall projections for world

demand are not well-defined, but the talk is of at least 20 and up to 36 craft being launched into space each year in the 1990s – not counting military and scientific pay-

loads.

The Australian calculation is that Cape York could compete

with facilities in such countries as China, Japan, perhaps the Soviet Union, Brazil and Indonesia if not with the

Kourou centre.

One key advantage is its equatorial latitude, which allows it to use the world's gravity as a slingshot to put larger payloads into space. Others are its access both to equatorial and polar geostationary orbits, and the availability of vast tracts of sparsely populated land.

Viability obviously depends on capturing a significant share of the world market for launches of commercial. chiefly communications, satellites. Neither consortium is pinning its hopes on military or scientific launches, or counting on developments like the Hotol space plane and orbiting space stations.

One key advantage is the site's equatorial latitude

of The ASG says its AS300m (£143m) proposal could be a going business if it attracted just six launches a year. The spaceport would be based near Comalco's bauxite operations tellis and would use a "universal launch pad" — an adjustable

e gantry which can assemble and launch different rocket

types.

The more ambitious CYSA proposal, which is based on an east coast site so that launches would be over water, would cost A\$ion. But both groups need government backing for the project to succeed — not through direct financing, but

to nelp smooth the way.

As one executive says of the CYSA proposal: "As a standalone commercial operation, it's probably marginal, perhaps even sub-economic. But other factors — opening up the area, technology transfer, a position in the world aerospace business — are in the national interest."

SOUTH AFRICA

Defence budget up by a fifth despite war's end

THE AEROSPACE industry in South Africa is virtually synonymous with the Atlas Aircraft Corporation, a subsidiary of the state-controlled arms corporation, Armscor.

It has become one of the world's most resourceful enterprises in the art of patching up and modernising obsolescent aircraft and devising derivatives of fixed-wing aircraft, helicopters and missiles.

helicopters and missiles.

The driving force behind its growth over the last decade has been the Government's determination to defeat the aims of 1977 UN arms embargo and allow the South African Air Force (SAAF) to compete effectively against the modern Soviet-supplied equipment used by the air forces of the front line states, especially Angola

The heavy costs involved in this priority task are reflected in the 22 per cent increase in this year's budgetary provision for the South African Defence

The risks which Pretoria appears willing to run to obtain required technologies from abroad, clandestinely if need be, were underlined earlier this year when an Armscor agent, operating out of the Paris embassy under diplomatic immunity, was caught by French security in the act of negotiating the transfer of a mock-up British Blowpipe missile. Britain reacted by expelling three diplomats from the London embassy, principally because the putative suppliers of the missile were members of the Ulster Defence Association and London was outraged at Armscor's apparent willingness to provide arms, given its own pre-occupation with minimising foreign support for the banned African National Con-

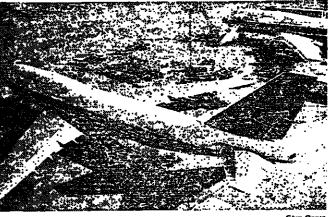
The Blowpipe incident followed the foiling of another attempt to acquire ground-to-air missile technology when the French government blocked an export contract for 50 Mistral air defence missiles

ostensibly destined for the Congo. Paris suspected the missiles would have been sent on to South Africa, which in recent months has greatly improved its relations with Congo and other French-speaking states during the course of the Namibian and Angolan

peace negotiations.

Fortunately for South Africa
the embargo on sales of new
military aircraft do not apply
to the civil sphere, where

ities. This concentration of effort ensures maximum cross-fertilisation and use of skills. Supplying the needs of the SAAF is Atlas's top priority. The corporation also seeks export markets to spread overheads and attain longer production runs. It has identified a major market niche in the refurbishing of ageing Mirage aircraft for the air forces of developing countries, bringing them up to the standard of the



Glym Genin South African Airways is to enlarge and modernise its fleet

South African Airways has committed R3bn (£688m) to enlarging and modernising its fleet over the next four years. In May Mr Eli Louw, the minister of transport, announced that SAA had bought two Boeing 747-400 jumbos for delivery in November 1990 and May 1991. The first two additions to its existing Airbus fleet of eight aircraft will be delivered in 1991. Four more will enterservice between July and August 1992 and the last in September 1993. The new jumbos, whose 13,000 km range will enable the airline to make non-stop flights to Europe and the Far East, will raise the jumbo fleet to 16 aircraft.

Atlas, whose skill base has

Atlas, whose skill base has been enlarged in recent years by an influx of israeli aerospace experts and technicians following cancellation of the Lavi advanced fighter programme, is possibly unique in the range of products manufactured under one roof. It makes and refurbishes fixed-wing aircraft and helicopters while building engines, other key components and spare parts and running extensive civil and military maintenance facil-

South African Cheetah. This is based on the old Mirage 3 airframe, but equipped with the latest avionics and equipment, including Darter all-aspect missiles and helmet sights for the nilot.

Similar upgrading, albeit on a lesser scale, has helped to prolong the operational lives of the SAAF's ageing Buccaneer and Canberra bombers and reconnaissance aircraft. Atlas has also developed its own drone, the Seeker, which apart from reconnaissance has been used on remote-controlled bombing missions such as that which destroyed a key bridge during the lighting around Cuito Cuanavale 18 months

ago.

Remarkable transformations have also taken place in the French-supplied Alouette helicopter, which was used as the basis for development of the Atlas Alpha XH-1 helicopter gunship, while the larger Puma helicopter is being used as an experimental test-bed for development of a heavier gunship.

Anthony Robinson

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CTATION III



INDONESIA

Replacing the Fokkers

PT NUSANTARA (IPTN), Indonesia's much-criticised aerospace company, continues to lead a charmed life. Since it was set up in the mid-1970s, it has sold only around 200 aircraft, both fixed- and rotarywing, mostly to the Government.

But the company enjoys generous state subsides — its budget was increased by 44 per cent for the current fiscal year.

And, despite some grumbling within the cabinet, IPTN shows little sign of slowing down its ambitious research programme.

At its Bandung factory, the

ompany's engineers are putting the first touches to the N250, a totally Indonesianmade 50-seat propfan plane, which IPTN hopes to unveil at the next Jakarta air show, in

The plane is being designed to replace Indonesia's large fleet of Fokker 28s, and is seen as a possible competitor to the Italian-made ATR 42 as a short-hop commuter aircraft within south-east Asia.

IPTN already has a number of collaborative ventures with foreign aircraft makers, from airframe manufacture to offset and simple maintenance agreements.

The company is working with Aerospatiale, of France, to make the Super Puma helicopter. A programme to construct the smaller Puma model was earlier abandoned.

Also in its rotary-wing sector, IPTN is building the B0105 twin-engined helicopter under license from Messerschmitt Bölkow Blohm (MBB), and the NB412 with Bell, of the US. However, sales have been disappointing, with demand from offshore rig operators depressed since the downturn in Indonesia's domestic oil activity.

IPTN has had more success as a sub-contractor to major international aircraft firms

As for the fixed-wing products, IPTN is jointly manufacturing the all-purpose Stol NC-212 Aviocar with Constructiones Aeronauticas (Casa), Spain's public-sector aircraft maker. The plane, which is described as the "jeep with wings", has been sold to the Indonesian armed forces.

Merpati, the state-owned

domestic carrier, represents another captive market for the 212. As for foreign orders, five NC-212s were sold to Thailand, where the plane has been adapted by the agriculture ministry for cloud seeding.

ministry for cloud seeding.

A more ambitious project remains the CN-235 short-hop passenger aircraft, a joint design and manufacturing agreement, again with Casa.

The two companies split revenues and costs on the project, with IPTN selling to Asia and Australia, while planes assembled at the Spanish plant are targeted for Africa and the US.

A joint marketing arm was set up last year to reshe the

set up last year, to probe the US aviation market. According to Dr Jusuf Habibie the IPTN chairman, Casa will deliver seven CN-235s to Conquest Airlines, of Houston — a sale worth \$55m. But the version assembled at IPTN has still to receive an airworthiness certificate from the US

icate from the US.

IPTN has had more success as a sub-contractor, making components for the major international aircraft firms. In 1988, the company agreed supply deals worth a total of \$125m, with General Dynamics and Boeing, of the US, as well as Fokker, the Dutch aircraft manufacturer.

Indonesia is viewed as a potentially huge market for both civilian and military aircraft sales. Dr Habibie, however, has made clear that a successful foreign bid must carry a considerable offset

component.

A \$337m deal with General Dynamics to buy F16 fighters included 35 per cent local offset work for IPTN. Prof Habibte is looking for similar terms from British Aerospace, which is trying to sell its Hawk 200 trainer to the Indonesian

rmed forces.

John Murray Brown

digitising drawings

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INSIDE

Courageous jump by the Black Horse



UK bought the bulk of Schröder Münchmeyer Hengst, the West Germen private bank then still overshadowed by a massive lending scandal aging partner to jail, it

seemed to be what bankers might politely call a "courageous" step. Later, as the German capital markets were liberalised and foreign capital markets were liberalised and foreign institutions scrambled in, opinion changed and within two years of the January 1984 acquisition, Lloyds was judged to have paid a bargain price for a healthy, if somewhat tarnished, name. Heig Simonian reports on Lloyds' plans for the German bank, Page 32

In another week of sharp fluctuations in world equity markets, Switzerland put in a rare star performance last week with a 4.8 per cent rise, fuelled by foreign buying and the evaporation of interest rate worries. The Asian region was volatile, with Singapore and Malaysia benefiting from the Hong Kong upset Page 50

Escape from the sticky patch



When Jan Ekberg (left) took over as president of KabiVitrum three years ago, the Swedish drugs group was going through a sticky patch. But, having made a loss in 1985, it last year achieved a profit of SKr636m (\$96.36m) on Marsh reports on the effects of Mr Ekberg's

introduction of a more imaginative approach to marketing and his attempt to raise morale.

Argyll's plate-spinning act

Argyll Group, the Safeway, Presto and Lo-Cost food retailing chain, reported a 19 per cent rise to £208.5m (\$327.3m) in pre-tax profits for the year to April 1, before exceptional costs of £29.8m (£43.5m) relating to the programme of converting Presto stores to the Safeway format. Mr Alistair Grant, chairman, said he was because but no service of the Safeway format. pleased but not smug about the figures. He said it was a plate-spinning act — maintaining profit growth while simultaneously pushing the conversion programme through. Maggie Urry

Sun returns to earth



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Like a rocket going out of control, Sun Microsys-tems lies careered off its planned trajectory. Sales and earnings growth, which have been soar-ing, will take a sudden quarter, the US comrevealed last week. Louise Kehoe looks at what has gone wrong for the company. Page 28

Market Statistics

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CGE to limit shareholders' voting rights BNZ to

COMPAGNIE

When Lloyds Bank of the

pensyen to be the first time a french company has sought to impose such a limit.

Shareholdings above the 8 percent limit would be disfranchised, although there would be no limit on the number of shares held. CGE said yesterday that the

d'Electricité (CGE), the French telecommunications and heavy

engineering group, intends to limit voting rights of sharehold-ers to a maximum of 8 per cent of the company's capital. This is

believed to be the first time a

proposed limit would be put to shareholders for approval at the company's annual meeting on 20

The company said the purpose of the move was to ensure a "bal-anced" shareholder base for itself, adding "we want to avoid the situation where we have one dominant shareholder". It acknowledged that the measure would effectively rule out a hostile takeover of the group, arguing that this would give CGE the same level of protection as many

of its continental European rivals. The move presented no difficulties under French com-

pany law, it said.
None of CGE's current share-holders would be disfranchised by the move, as none currently holds more than 8 per cent of the group's shares. CGE therefore predicted that the measure would be approved by shareholders without hesitation, although analysts failed to see the incentive to shareholders. The company said it believed

Major European food

other French companies would follow CGE's lead in putting takeover protection in place. However, although the shareholding structures of some French companles prevent takeovers without board approval, no other com-pany is believed to have acted to disfranchise shareholdings in

this way.

approx (Ebn)

CGE stressed that it had no particular predator in mind in proposing the change.
However, analysts said CGE might be concerned to prevent

possible moves by the Socialist Government to wrest control away from the "hard core" of friendly shareholders put in place by their right-wing predecessors. They point to the battle earlier this way at Societé Carinele the this year at Société Générale, the board and with state-owned company to more than 20 per

Lex, Page 26

French bank, which ended with the appointment of two of the Government's allies to the bank's groups raising their stake in the

BSN Groupe operating

income of divisions

Dairy products

The whole cake in one mouthful

Générale

George Graham and Lisa Wood on BSN's successful grab for all five of Nabisco's European businesses

BSN, the French food and drink group, has taken a decisive step up the league of major European foods conglomerates with yesterday's deal to buy five Nabisco biscuit and path.

SN, the French food and the consumer industries, and the emergence of a small, neighty elite in sectors like toothpaste and liquor, food manufacturers are now trying to follow a similar path. nack businesses. Mr Antoine Riboud, BSN's

chairman, has already transformed his group once, shifting its focus completely from glass to Over the last few years, he has

continued in this direction with a radical overhaul of BSN's brewing businesses and a stream of small and medium-sized acquisitions, such as last year's purchase from Hanson Trust of HP Foods, with its well-known British sance brands ish sance brands.

Now, by paying \$2.5m for the Nabisco businesses, with a com-Now, by paying \$2.50m for the Nabisco businesses, with a combined turnover of around FFr8bn (\$1.2bn) and profits this year expected to total FFr620m, Mr Riboud is taking a bet which shows that at 70 years of age he is still prepared to look at the long term.

long term.
The deal also underlines the rapid rationalisation and consolidation of the European foods industry which is now in full swing in the run-up to 1992 and the creation of a single European

fragmented: a recent study carried out for the European Com-mission by the MAC group, pointed out that, of a sample of 46 leading EC-based food compa-nies, half had a presence in only two or fewer countries.

But, having observed the suc-

BSN, the third biggest player in the Community's food busi-ness after Nestlé and Unilever, should now be well positioned to exploit the slow break-down in national focus of European food businesses and exploit the brand strengths of the operations it has

The deal also gives it a hig boost up the world food league table. According to Henderson Crosthwaite, the UK brokers, it rises from 15th to sixth position, neck and neck with Grand Metropolitan of the UK, which recently acquired Pillsbury, the US food giant, for \$5.8bn

Opportunity

But — as other companies have found — BSN has had to pay a substantial premium to get its hands on strong brand names. It appears to be paying 26 to 27 times prospective earnings for the five divisions, even more than Nestié of Switzerland paid to take over Rowntree, the British confectionery business

"It is clearly expensive, but on the industrial level it is very posi-tive. It is an important test for BSN, and it would have been a great pity to let the opportunity pass," comments Mr Francois pass," comments Mr Francois Langlade-Demoyen, an analyst at Goldman Sachs in London.

RI-M United Biscults Hillsdown Suctant Status Perset SEW Berlstord Daligety Unigate Northern Foods Tate & Lyte Pooler Booker St Louis Beghin Say Bongrain Haziewood 0.5 BSN number one in crisps and

short term, but given the strategic positions and the market shares it acquires in France, and especially in the UK, BSN had to seize this chance," adds Mr Jean Weisse, an analyst at brokers Toffier Ravier in Paris.
The five companies being

bought - Saiwa in Italy, Belin in France, and Jacob's, Smith's and Walker's in the British biscuit, crisp and snack market – will double BSN's biscuit division, which earned FF7718m last year before tax and interest, on sales of FFr7.22bn.

The division was largely built up from the purchase of Generale Biscuit in 1986, and is based on brands like Lu, L'Alsacienne, De Beukelaer and Heudebert.

In France, the acquisition of Belin, number two behind BSN and especially known for its cocktail snacks, will give the group a market share of 40 to 45 per cent, but after contacts with the Government, BSN does not expect to have measured to have expect to have monopoly prob-

Seita, the French state tobacco company, was also interested in Belin, in partnership with the West German biscuit group Bahl-sen, but decided to withdraw in the face of a likely bidding battle. Seita denied yesterday that it had felt any pressure from the French Government to leave BSN alone in the lists. In the UK, meanwhile, the three Nabisco companies place

biscuits, through Jacob's.

Penetrating the UK market has proved particularly difficult for

cocktail snacks, through Smith's and Walker's, and number two in

BSN; Mr Riboud attributes it to the peculiar British nutritional habits and to the concentration of the domestic foods industry.

Strong increase

His 2199m (\$310m) purchase of HP Foods, with the Daddie's and Lea and Perrin's sauce brands, offered what he described last year as a "royal road" into the UK, but BSN has still been looking for other ways in: for example, in the mineral water sector, where the group is already strong in France and Italy with Eviau, Badoit and San Gemini.

"The UK is the best biscuit market in Europe, and this was BSN's only way in, harring an alliance with United Biscuits, which would have been blocked on monopoly grounds," said one Paris analyst vectoriay Paris analyst v BSN's net profits rose 41 per

cent last year to FFr2.189bn. thanks largely to a strong increase in earnings at the main dairy products division, where its world-leading Gervals and Dan-one yoghurt brands recovered after a decline in 1987. This year, however, analysts

had expected a much more modest increase in profits, and the likely increase in financial costs in the wake of the Nabisco purchase will slow earnings growth still further this year and next. Although BSN raised money last year through a FFr1.704bn issue of bonds with warrants and through the sale of its Bottu aspi-rin division to Rhône-Poulenc, it also embarked on a string of

also embarsed on a string of acquisitions in the UK, Italy, Spain and the US.

The group now has spare cash of FFr1bn to FFr1.5bn and a multiple option facility of FFr4.5bn, but this will still leave around FFr1.0bm to borrow in order to be according to the five finance the acquisition of the five Nabisco subsidiaries.

The group has long-term bor-rowing of only around FF75hn, against equity of FF716bn. This leaves ample borrowing capacity but will require refinancing over

the medium term.
"When we buy a company, or five, we pay and then we refinance later," commented a BSN official yesterday.

"It is clear financing costs will be enormous, perhaps Ffribn over a full year. That may reduce earnings growth to 10 per cent this year and perhaps nothing in 1990, depending on the financing conditions," comments Mr Langlade-Demoyen of Goldman Sachs. "But it makes BSN one of the three players on the European

rebuild base

By Gordon Cramb in London

BANK OF New Zealand (BNZ). the country's largest commercial bank, yesterday launched a NZ\$600m (\$344.8m) effort to rehnild its capital base after unveiling provisions on loan losses amounting to 9.5 per cent of its total lending portfolio.

As part of the restructuring, a key 29.5 per cent stake in the state-controlled BNZ will pass to Mr Michael Fay and Mr David Richwhite, the two local merchant bankers who backed New Zealand's ultimately successful Zealand's ultimately successful America's Cup yachting challenge. Through a quoted investment vehicle called Capital Markets, they will pay NZ\$500m for the BNZ bolding — under an arrangement with the Government struck at a discount to the

market price. The upheaval is the latest in a series to beset BNZ, which the Government had been seeking to ell following the flotation of an initial 13 per cent in 1987. In March it rejected as too low a bid for the remainder from National Australia Bank, having earlier spurned an offer by Brierley Investments (BIL), headed by Sir Ron Brierley. Until February, Sir Ron was also BNZ chairman, but quit amid discord over his role.

BNZ has been labouring under a depressed New Zealand economy and tougher competition following banking deregulation. However, the NZ\$1.29bn write-off made yesterday was unexpectedly large and related in part to previously undisclosed setbacks in Australian corporate lending on top of a known NZ\$200m exposure to Equiticorp, the New Zealand investment company which collapsed in January.

Mr David Lange, the Prime Minister, said the bank "took a bath in Australia and I don't think Wallington knew." Mr

think Wellington knew." Mr Frank Pearson, the new BNZ chairman, described the losses there as "more of a shower".

Overall, the attributable loss for the year to March was NZ\$648.8m, compared with profits last time of NZ\$199m, and the final dividend is being omitted. BNZ shares fell 22 cents To set in train its recovery and

meet world capital adequacy standards, BNZ is to raise NZ\$405.4m through a sevenfor-10 rights issue priced at 70 ents. The Government, whil underwriting the issue, will waive the bulk of its own entitlement in favour of Capital Markets. The state shareholding could thus fall as low as 52 per cent. Capital Markets shares firmed

3 cents to NZ\$1.17. Lex. Page 26

De La Rue profits fall to £26m

By David Waller in London

DE LA RUE, the bank-note printer and electronic equipment manufacturer, yesterday reported a collapse in profits for 1988-89. dropped from £62.42m (\$97m) to £26.2m, while earnings dwindled from \$1.1p to 4.9p per share.

At the same time, the company announced the resignation of its chief executive, Mr Brian Mal-

pass, on the grounds of ill health. Mr Malpass took extended leave in March on doctor's orders and is now suffering from physical and mental exhaustion. In February, the company warned that problems at two sub-sidiaries - Crosfield Electronics

and Printrak - would lead to a sharp fall in profits. In the event, the downturn was significantly worse than expected - brokers had been expecting some £34 to £35m in profits for the year to the end of March. Nevertheless, De La Rue's

shares rose yesterday, from 310p to 315p, capitalising the company

Mr Robert Maxwell, the British publisher, holds a 15 per cent stake accumulated in the aftermath of the October 1987 crash and Mr Carlo de Benedetti, the Italian industrialist, last week took his holding through the 5 per cent level.

There was much speculation that their stakes could be used as a platform for a hostile bid. Crosfield, a manufacturer of sophisticated electronics equipment used by the newspaper industry, saw its profits fall to £5.2m, a quarter of the level in

the previous year.

De La Rue said it had geared up its production in anticipation of sales which failed to material-

tility. Its products were "big-ticket" items, demand for which proved highly sensitive to inter-est rate rises. Having started a rationalisation programme, De La Rue is in talks with a number of parties — none identified — with a view to finding a strategic partner for the business.

Printrak, a manufacturer of automated finger-print identification systems, lost \$14.7m due to an absence of orders.

an absence of orders, and costs incurred in support of systems recently sold. Since the year end, orders had picked up, but it has proved impossible to find a buyer or a partner — for the business as indicated in February. The company said it was confident that the problems could be

overcome, and remained con-vinced of the underlying strength ise, incurring irrecoverable costs as a result.

The company acknowledged that Crosfield was prone to vola-

Gateway 'continuing to improve'

GATEWAY, Britain's third largest food retail group and currently fighting a hostile, leveraged £1.87bn (\$2.93bn) offer from the newly-formed Isosceles company, yesterday maintained that its trading improvement in the 12 personal party of the provenest of the provenest in the 12 personal party of the 12 per months to the end of April had continued into the current finan-

cial year. It said that group trading profits for the first four-week period showed a 34 per cent advance on the comparable figure a year ago. Gateway has already estimated pre-tax profits of £218.7m in the year to end-April, compared with £185.8m in the previous year. "The foundation of this further

improvement in profitability is

the strong performance of Gateway Foodmarkets, where the

trading margin has risen by over

a quarter to more than five per cent," it added. Gateway Food-markets is the core food retail

business in the UK.

However, the new document — the last in which Gateway can release new financial information brought swift criticism from The bidder argued that four weeks was a very short trading

period, which needed to be judged alongside pricing and pro-visioning policies, and had coin-cided with particularly fine weather this year when food retailers generally could be expected to have done well Isosceles also noted that the Gateway Foodmarkets margin was over 6 per cent in the second half of 1988-89 — although it acknowledges that there is some

seasonality in the business. Gateway said that "in recognition of the group's estimated record profits and as an indica-tion of our continuing confidence", it intends to pay a final dividend of 6p, making a total of 9.5p for the year, as against 8.5p.

It says that it intends to maintain its policy of paying dividends equivalent to one half of attribut-

The food retail group has also commissioned a "desk appraisal" of its UK and Irish properties from chartered surveyors Jones Lang Wootton. It says that these show a value of £1.078bn. This figure does not include the stores and warehouse complex which are part of Herman's, Gateway's US sporting goods retail subsid-

However, both the dividend payment and the property valuation brought a further attack from Isosceles. It pointed out that Gateway's level of cover is well below that of its rivals, and that no food retail business was valned on its underlying assets. It added that Gateway has still not answered its own queries

over the previous profit estimate. Lex, Page 26

Even the cabinet office has moved to Newport.

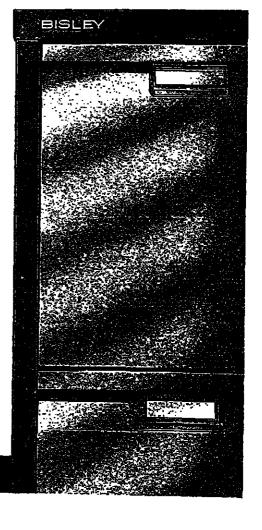
The success Newport has enjoyed in attracting new companies to the area is illustrated once again by the recent decision of one of Britain's leading office equipment manufacturers to move into the area.

in order to expand their UK operations. Bisley are establishing a major new manufacturing base in Newport, occupying 240,000 sq.ft. of factory space and creating 300 new jobs in the process.

At the other end of the commercial spectrum the TSB Trust Company are also moving into Newport, more proof if any were needed that it is a thriving, vital region of the country, offering many attractions to companies looking for the ideal relocation site.



Facsimile: (0633) 244721, (Opole Ref. FT).



INTERNATIONAL COMPANIES AND FINANCE

NWA gives bidders 10 days to revise offers

Ey Roderick Oram in New York

THE BOARD of NWA, parent of Northwest Airlines, has given bidders until June 16 to revise their offers to buy the

company in an auction which is likely to top \$30n.

All the initial proposals received last week were unacceptable in their present forms, a committee of independent directors assessing the offers said. The offers were highly conditional and posed considerable risks to NWA's shareholders that they could not be consummated.

in revising their offers, investors should address con-

investors should address concerns over financing and questions about high debt levels raised by the US Department of Transportation, it said.

NWA has refused to disclose the bidders' identities or the terms they offered. It is known, however, that at least four offers are on the table from Pan Am for about \$110 a share from Mr Marvin Davis. share; from Mr Marvin Davis, the Los Angeles investor, for more than \$90 a share; from NWA's machinists union for a recapitalisation which would pey shareholders about \$110 in cash and stock dividends; and from a group of investors led by Mr Al Checchi, a former chief financial officer at Marriott Hotels.

New Issue

Sun Micro dives out of planned trajectory ike a rocket going out of Until now, it has appeared to

Louise Kehoe on the sudden downturn forecast by a fast-growing computer maker

control, Sun Microsystems has careered off its pianned trajectory.

Sales and earnings growth, which have been soaring, will take a sudden downturn in the current quarter, the computer manufacturer revealed last

Sun will not reach the \$2bn in fiscal 1989 sales that has long boasted, and it may record its first losses since going public in 1986.

The fastest growing com-puter manufacturer in history, Sun has gained worldwide

market leadership with its high performance desk-top computer workstations.

These have challenged the traditional role of minicomputers in office automation and created a new segment of the market for powerful desktop machines used by engineers, scientists and financial ana-

Beyond that, Sun has become the latest Silicon Valley legend. Like Apple Computer, it was founded by a group of young men with little prior business experience. Mr Scott McNealy, co-founder and chief executive is now only 34 chief executive is now only 34

While Apple cultivated its image as a free wheeling, egalitarian corporation, Sun has created a brash, hard-driving company, characterised by its executives frequently disparagbe a formula for success. The company has clocked up an annual compound growth rate of over 161 per cent over the past five years to reach projected sales in fiscal 1989 of

After seven years of soaring growth, however, Sun has fal-

It was a day that Sun execu-tives had feared and its com-petitors had yearned for. But in the event, no outsider could take credit for the company's

It seems to have become the victim of its own success. The company's young executives have momentarily lost control of a business whose growth had overcome their ability to accurately forecast demand or component requirements. On April 12, Sun boldly

unveiled five new products to replace and expand its entire product line. While they attracted worldwide attention, the company was ill-prepared to deal with the product transi-

Struggling to keep up with a fast changing mix of incoming orders and with sales growth running at over 100 per cent a year, Sun simultaneously apted to overhaul its own internal computer-based management information In early April, it turned off

the minicomputers upon which it had relied since it was founded in 1982 and turned on

a new mainframe computer It was a decision that had

been put off repeatedly as Sun ploughed its resources into research and product develop-ment. Ultimately, however, its

'It is very, very difficult, growing at the rate we are, to forecast accurately. We did the best we could with the data that we had'

omputer consultants warned that drastic changes were essential. "We were told that it could be fatal if we put off sur-gery any longer," a Sun execu-tive said.

The timing could not have been worse. The new computer system failed to operate properly and for two weeks the company was unable to process new orders. Even now, managers are not receiving timely reports on sales, orders, component inventory and

r McNealy admits: "In retrospect, we should have upgraded the MIS earlier. The system I

put in place when we were a five person company just wasn't up to it. I thought it would have lasted us for decades . . . who could have known that we would be sell-

"It is very, very difficult, growing at the rate we are, to forecast accurately. We did the best we could with the data

sthat we had."

Sun also failed to predict the continuing strong demand for its old products. "We told the salesforce that the new products would be in limited supply – apparently they took that to heart," says Mr McNealy. "Perhaps up misdirected them." haps we misdirected them." The result has been that Sun is short of components

required for its products.
All this might have been avoided if Sun had not been racing for record growth.
Growth, however, has always been a fundamental element of Sun's philosophy.
Will Sun slow down? "That

has become a huge issue in executive strategy sessions," a company executive acknowledges. "Next year, growth has got to slow down. It would kill

got to slow down. It would kill us. In fiscal 1990 you will not see 100 per cent growth."

Nevertheless Sun's fundamental strategies remain intact. The company's executives maintain that only by growing as hig as possible as quickly as possible can Sun achieve its goal of becoming the next giant in the computer

market — a company that can challenge IBM, Digital Equip-ment, Apple Computer and all

Sun also remains a champion of "open systems," the trend toward software staning at a \$2bn per year run rate dards that enable different types and brands of computers to share programs and data.

> n an effort to establish its computers as a new indus-try standard, mirroring the impact of IBM's personal computers, Sun has been encourag-ing competitors to "clone" its computer architecture by licensing several chip makers to produce its high performance Sparc reduced instruction set computer (Risc) microproces-

sor chips.
In its latest move, Sun licensed Toshiha of Japan to use its hardware and software technology to build Spare personal computers.

But Sun is facing intensifying competition from the com-

puter industry establishment. Hewlett-Packard ha recently strengthened its stake in the computer workstation market through the acquisition of Apollo Computer. And IBM is placing increased emphasis on the workstation market.

In the wake of last week's announcement, Sun must also

regain credibility.
The company's surprising earnings projection was preempted by heavy stock selling that drove the company's stock price down by close to \$2.

CNW agrees \$1.6bn buy-out offer from management

By Deborah Hargreaves in Chicago

CNW, THE Chicago railroad group agreed a management buy-out offer yesterday worth some \$1.6bn.

It will be acquired by a group led by senior management and including Black-stone, a New York investment bank, Donaldson, Lufkin and Jenrette Securities and Union Pacific, the railroad group.
after conducting an auction
over the weekend. It said a
cash tender offer of \$50 per share for 91 per cent of its shares — or a total value of \$800m — would begin within five days.

The bid will be financed partly by bank financing secured by Blackstone and a \$475m bridging loan from DLJ. The deal will almost double the

The deal will almost double the company's debt load, which it had been planning to reduce.

However, CNW has said it would not be selling any significant assets to pay for the transaction. Mr Robert Schmiege, CNW chairman, said the company's business plan formed on upgrading its main focused on upgrading its main

line and not on selling assets. The financial structure of the company envisages new equity totalling \$300m, includ-ing \$100m provided by Union Pacific to make capital improvements Union Pacific is eventually to hold a 25 per cent stake in the merged company - the railroad will hold 100m pay-in-kind preferred shares which will be convertible in

five years.

CNW said it agreed with Union Pacific to spend \$115m on upgrading its main eastwest line over the next three years. The agreement includes investing \$40m in that line later this year. Union Pacific uses CNW's line for transporting freight into Chicago and its involvement in the bid is a way of securing that route and ensuring it is adequately maintained.

CNW held the weekend auction after rejecting a hostile bid of \$44 per share from Japonica Pariners, an investment group. It also rejected a partial buyout from its union.

Eastern Air creditors face difficult talks

By Roderick Oram

CREDITORS face difficult and CREDITORS face difficult and long negotiations with Eastern Air Lines over its recovery plan following the breakdown of efforts to find a buyer for the strike-stricken carrier.

High demands by Eastern and its parent, Texas Air, were blamed by some of the credit.

blamed by some of the credi-tors for the inability of Mr Joseph Ritchie, a Chicago options trader and the last potential bidder, to strike a

deal.
The failure was a serious blow to Eastern's unions which had withdrawn their labour in early March to try to force Mr Frank Lorenzo, Texas Air's chief executive, to sell off the carrier. Highly unpopular with his employees, Mr Lorenzo is demanding steep wage cuis. The machinists and pilots unions were prepared how-

unions were prepared, how-ever, to back Mr Ritchie with pay concessions of up to 35 per cent to help him revive East-Union officials said Texas Air was demanding \$500m cash for Eastern, transfer of some of its assets to Texas Air and for its assets to Texas Air and for-giveness of some parent com-pany debt owed to Kastern. The total demands were worth some \$750m, compared with

only \$464m proposed by Mr Pete Ueberroth, the investor, in in April.
Rather than selling Eastern,
Mr Lorenzo is pushing to sell
off some of the airline's assets, pay down debt and rebuild service with a new schedule about two-thirds the size of the old.

Under the protection of the

new York bankruptcy court. Texas Air resumed negotia-tions yesterday with its creditors over its reorganisation plan. But there seems to be little agreement so far between groups of creditors over the final shape of a deal with East-

Frank Lorenzo: pushing to sell airline's assets

Since the strike began Eastern has operated only about 10 per cent of its flights. It said last week it hopes to have about 30 per cent of its new schedule operating by July and

100 per cent by December It plans to start rebuilding ervices on Friday by reviving its largely dormant Atlanta hub. From only four flights a day in recent months, it hopes to expand to 82 by July 2 using newly hired pilots and the few employees who have crossed picket lines. It has also slashed prices to attract passengers.

Petro-Canada and Neste plan octane booster plant

By Robert Gibbens in Montreal

PETRO-CANADA and Neste Oy, the Finnish energy group, will build a C\$300m (US\$249m) methyl tertiary butyl ether (MTBE) plant in Edmonton, Alberta. The product is used as an octane booster in unleaded

The plant is due to start production in 1991 with annual capacity of 453,000 tonnes. Can-

ada is phasing out leaded gasoline by the end of 1990.

Neste Ov will own 75 per cent of the plant and Petro-Canada 25 per cent Production will be marketed in Western Canada and the US, while another plant, with different ownership, will be built in eastern Canada, possibly in

Paramount posts strong quarter

By Karen Zagor in New York

PARAMOUNT Communicaranamount communications, the renamed Gulf + Western entertainment and publishing group, reported strong second-quarter earnings thanks to the performance of its discontinued framed accordance becomes

mance of its discontinued financial services business.

The company, which recently said it would sell its extremely profitable Associates financial services group, reported net income for the quarter ended April 30 of \$65.6m or 55 cents a share, against \$55.5m or 46 cents.

However, without the

However, without the income from the Associates, Paramount reported a loss of \$5.2m or 5 cents a share for the quarter. Revenues exclu-sive of financial services were \$699.1m, against \$619.6m a year earlier. The year-ago earnings included an extraor-dinary set gain of \$4.8m.

For the six months, net income was up 12 per cent to \$134.8m or \$1.13, against \$120.2m or \$1.00 the previous year. Mr Martin Davis, chair-man and chief executive, said record earnings from Para-mount's entertainment business were offset by losses in Simon & Shuster's educational publishing and lower earnings from consumer publishing

operations. The New York-based company said traditional second quarter losses in educational blishing were compounded by the expense of launching several new textbook series. However, for the full year, Paramount expects double digit growth from its educa-tional operations.

Earnings were strong across the board from Paramount's extertal ment operations

entertainment operations which include television, film exhibition, New York's Madi-son Square Gardens and the

NATIONAL BANK OF CANADA

Notice of Total Redemption To the holders of all outstanding U.S. \$50,000,000 Floating Rate Notes Due 1991

NOTICE IS HEREBY GIVEN that under the terms and conditions fixed in an Offering Circular dated December 14, 1983 (the "Offering Circular"), the National Bank of Canada (the "Bank") will redeem prior to maturity on July 10, 1989 (the "redemption date") all U.S. \$50,000,000 Floating Rate Notes maturing in 1991 (the "Notes"), which will be outstanding on the redemption date, at their principal amount together with interest accrued to the date fixed for redemption.

All Noteholders should present and surrender for payment on the redemption date, their Notes (together with, thereto attached, all interest coupons maturing July 10, 1989 and subsequently) at the specified office of the Principal Paying Agent in New York City, namely, National Bank of Canada or at the option of Noteholders, at the specified office of any of the other Paying Agents, namely, Kredietbank N.V. in Brussels, National Bank of Canada in London, Kredietbank S.A. Luxembourgeoise in Luxembourg, (addresses of which are listed below).

AND Notice is hereby given that, as and from the redemption date, the Notes will cease to bear interest. All interest coupons maturing after July 10, 1989 shall become void and no payment shall be made in respect thereof.

National Bank of Canada 535 Madison Avenue, New York, New York 10022

National Bank of Canada Princes House 95 Gresham Street, London EC2V 7LU

Kredietbank N.V. Arenbergstraat 7, B-1000 Brussels

Kredietbank S.A. Luxembourgeoise 43 Boulevard Royal

NATIONAL BANK OF CANADA

Montreal, Canada, this 25th day of May 1989.

5,400,000 Shares

All of these securities having been sold, this announcement appears as a matter of record only.

The Complete Networking Solution ~ Rochester, New Hampshire

Common Stock

The New York Stock Exchange symbol is CS

1,000,000 Shares

The above shares were underwritten by the following group of International Underwriters.

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INTERNATIONAL COMPANIES AND FINANCE

Bitter pill puts KabiVitrum on the mend

Peter Marsh talks to a tough boss who turned round an ailing Swedish drugs company

products industry. Just over three years ago, he took on a new challenge - as preside of KabiVitrum, a Swedish drugs group which had some promising products but which had been going through a

sticky patch.
Mr Ekberg, 52, had to work hard to knock KabiVitrum into shape. The company is owned by Procordia, Sweden's statecontrolled industrial holding group, and made a loss in 1985, just before he took over. Mr Ekherg introduced more

imaginative marketing and tried to raise morale at Kabi, which had been in the doldrums since a health scare that reduced sales of one of its important products.

Another unsettling factor had been the rumours during 1985 of the company being acquired by Fermenta, a fast-growing Swedish pharmaceuticals group headed by Mr Refaat El-Sayed, an Egyptian-born businessman. That idea fizzled out when Mr El-Sayed was found to be involved in several scandals and was even-tually charged with fraud. Now Kabi — which is Swe-den's third largest drugs

group, after Astra and Pharma cia, and is best known for its nutrient supplements and expertise in biotechnology – appears to have recovered. Last year it made two impor-tant acquisitions, which helped it boost sales to SKr3.2bn

an Ekberg has a tough look about him which may stem from the decade he spent in Sweden's building the turn out of the sweden's building the turn out was achieved after Kahi's new hose cut costs by reducing the 2,000-strong workforce by some 10 per cent. He also introduced more effi-cient marketing, splitting the company into 10 product divisions in which sales staff work side-by-side with research workers rather than in individ-

Mr Ekberg says that this approach, coupled with a num-ber of new senior managers, had a "fantastic" effect on Kabi. "There is now much bet-ter liaison between the different parts of the company. He reckons that, coming to Kabi from outside the drugs sector, he could look afresh at its problems. But it was not all plain sailing. "A lot of people asked me what I knew about

the pharmaceutical business."

The Kabi president - whose The kant president — whose populist side to his character is shown in a photograph of him playing football with some of his workforce — knows he has more to do. In drug-industry terms Kahi is a minnow - its sales just about put it into the top 75 medicines companies worldwide.

He wants to double Kabi's turnover over the next five years and increase its presence in the non-Nordic parts of Europe, where it is weak. "We have to be thought of as not a Swedish company but as a European one About three quarters of Kabi's sales come from western

Jan Ekberg: job cuts had "fantastic" effect on Kabi Europe, but European sales outside Scandinavia account for only half this figure. Mr Ekberg would like to push this proportion up to two thirds by the early 1990s.

With this aim in mind, Mr

Exherg is considering acquisi-tions in France, Spain and Italy which fit with Kabi's main product areas.
The expansion started last year when Kabi bought a conwest German drugs company.
It also purchased Swedish medicines group Läkemedel.
State-run Procordia sold two

fifths of its equity to the public just over a year ago. Being part of this group should not ham-

per Kabi in its search for growth, says Mr Ekberg, who adds that the bolding company has plenty of cash for possible acquisitions. Part of this cash is the SKrlbn that it raised via its stock flotation.

Although Kabi's sales put it behind the top drug companies, Kabi stands out because of its focused approach to products. By concentrating on narrow fields, Kabi has been able to brild soles in press of limits. to build sales in areas of limited competition from the

An example is the company's activities in hospital-nutrition products, used in intravenous feeding. Kabi is among the world leaders in this area. which brings in about a third of sales. Kabi is also strong in prod-

ucts which are use biotechnology to make drugs based on natural substances. These products account for 40 per

ncluded in this group is a genetically-engineered form of human-growth hormone, a substance secreted in the body. It is made only in small quantities by people suf-fering from restricted growth. They need additional sources of this hormone to develop nor-

An earlier version of this bormone, produced by Kabi from corpses, was the subject of a health scare in the mid-1980s. This was related to possible contamination of products and led to a drop in sales.

The Swedish company is now believed to take roughly half the world market in genetically-engineered human growth hormone, worth £160m (\$255m) a year. Competitors include Eli Lilly of the US, Denmark's Novo-Nordisk and Sanofi of France.
Other biotechnology-derive

substances sold by Kabi include streptokinase, a drug for removing blood clots which can kill people if they form in the aftermath of heart attacks, and blood-plasma products used in transfusions.

With streptokinase, which is also sold by Hoechst of West Germany, Kabl is gaining from doctors' increased interest in treating heart-attack patients with clot-dissolvers.

The final 30 per cent or so of Kabi's revenues come from products such as drugs for urology and a not particularly impressive group of non-prescription medicines sold mainly in the Nordic countries. Mr Ekberg says he plans to build on Kahi's strengths by

continuing this emphasis on small, tightly defined areas of the healthcare business. He expects the company's high level of research and developlevel of research and develop-ment spending, which accounts for some 15 per cent of sales, to bring other prod-ucts related to its current

activities.
For instance, the company has high hopes for a group of esoteric, biotechnology-derived hormone products now under development which could help

Repubblica plans L10bn increase in capital

LA REPUBBLICA, the top-selling Italian newspaper published by the Mondadori group, will propose a L10bn (\$7.1m) capital increase at the end of the month as part of a plan to request a listing on the Milan bourse, AP-DJ reports. La Repubblica confirmed

local press reports of the capi-tal increase, but details were not immediately available from the paper or its pub-lisher. Mondadori is headed by financier Carlo De Benedetti.

Reports say that the increase, which would bring La Repubblica's nominal capi-LA REPUBLICA'S hominal capital to L11bn, would be effected through a rights issue to shareholders. The new share issue would be followed by another capital increase next year and by a share split. It is understood that the proposals will be presented to shareholders at the company's

annual meeting on June 28. Mr De Benedetti recently acquired control of the outstanding 50 per cent of La Repubblica when Mondadori acquired the L'Espresso publishing group.

This deal caused speculation

that the operation would result in a share listing for the Rome-based daily newspaper.

Swedish bank ahead 4% but lending slows

By Robert Taylor in Stockholm

SVENSKA Handelsbanken, Sweden's second largest com-mercial bank, reported an increase of 4 per cent in operating profits yesterday for the first four months of the year to SKr1.263bn (\$191m), compared with SKr1.209bn for the same period of 1988.

Income rose 6 per cent to SKr2.551bn from SKr2.410bn.
The bank said that lending to the consumer sector was increasing more slowly than in early 1988, mainly because of a proposed tax reform. This will abolish tax relief on inter-

est paid for loans. The bank also reported strong demand for long-term hopsing and property credit. at DnC signals end to lean times

DEN NORSKE Creditbank, once Norway's biggest bank but forced to shrink in size in recent years as a result of massive loan losses, yesterday announced four-month results showing a strong recovery.

Operating profits before tax and losses for the four months more than doubled from NKr278m (\$39m) to NKr573m while a substantial turnround at the net level produced a profit of NKr460m, against a loss of NKr338m for the first

four months of 1988. DnC, which implemented sweeping management and organisational changes last year, said the recovery stemmed from improved net interest income, increased operating income and a signifi-cant reduction in operating

Helped by staff cuts, operating expenses for the four months fell to NKr984m from NKr1.035bn. DnC said the effects of its streamlining pro-gramme had only been partly reflected in the bank's accounts for the four months. It added that losses on loans and guarantees were on a fall-

ing trend and estimated that for the full year these would total NKri.3bn. In 1988 loan losses amounted

to NKr1.8bn. Apart from cleaning up its loan book, DnC has been pushing through wide-ranging staffing changes. The number of employees totalled 3,300 at the end of April, with DnC claim-

ing a reduction of "1.058 manyears" since April 1988. Results of the bank's international operations have shown a clear upturn. DnC London, the largest unit within the international division, increased four-month operating profits from £4.1m (\$6.5m) to £7.7m.

Lively chemicals demand boosts Hoechst earnings

Strong recovery

By Halo Simonian in Frankfurt

cals company, rose by 13 per cent in the first five months of this year thanks to continuing strong demand for chemicals products, lively foreign demand and satisfactory domestic sales.

Mr Werner Hilger, the chief executive, said yesterday at the group's annual meeting that business had developed "very pleasingly" this year. He voiced optimism for the year as a whole, but gave no forecast for profits or sales.

Last year, group pre-tax profits rose to DM4.1bn (\$2.09bn) on sales of DM4.1bn, leading Hoechst to raise its dividend to DM12 a share. Profits in the first quarter of this year climbed 23 per cent to DMibn. Mr Hilger said sales so far this year had been bolstered by the strength of the dollar, alongside strong demand fac-

GROUP SALES at Hoechst, the leading West German chemition, despite strong opposition in Germany. Mr Hilger warned against banning genetic production and said that Hoechst intended to press ahead with its pilot insulin plant, for which it has been given a twoyear operating licence, from

the beginning of next year.
With all Germany's big three chemicals groups facing capacity constraints, Hoechst had decided to boost its investment plans this year. Total fixed investment is due to exceed DM3bn for the first time, against DM2.87bn in 1988.

Around DM1bn of the total will be spent on the construction of new plant, following more careful capacity expansion in previous years, he said.

• BASF is to merge two UK subsidiaries. BASF Chemicals, a production unit, is to join forces with BASF UK, which is

Investment income lifts Swiss insurance company

By John Wicks in Zurich

WINTERTHUR, the Swiss insurance concern, reports a 15.2 per cent increase in group net profits to SFr220.5m (\$130.5m), following a 27.3 per cent increase in gross premiums to SFr10.36bn.

The company attributed the improvement to growth in investment income, up 21.4 per cent to SFr1.8bn. This more than compensated for a 43 per cent jump in non-life underwriting losses to SFr437.8m. Winterthur attributed this to rising underwriting losses in France and a general deteriora-

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. . .

tion in car insurance compa nies' results in Europe. The overall rise in non-life under-writing losses was 7.2-7.8 per cent of premiums earned for

own account. About half the growth in revenues came from acquisi-tions, with the Italian group Intercontinentale accounting for SF1586m last year, Neucha-tel General in Switzerland SF7447m and Southern Guar-anty of the US some SF781m.

Premiums from existing

Outsiders able to invest in new electronics unit

THE CAPITAL of a new flight electronics unit set up by France's two leading state-controlled electronics and avia-tion groups will be open to outside investors, Reuters reports from Paris.

The new venture, announced in February between Aerospatiale and Thomson-CSF, will be about 52-per-cent-controlled by the two groups via a joint ly-owned holding company. Aerospatiale will hold a further 10 per cent on its own and the remaining 38 per cent will be traded on the Paris bourse. operations improved 13.6 per

AMB confirms 16% rise in net profits last year

By Our Financial Staff

AACHENER UND Muenchener Betailigungs (AMB), the big German insurance group 20 per cent owned by Royal Insurance of the UK, has confirmed that net profits for 1988 increased by 16 per cent to DM64.6m

The company expects profits for 1989 to exceed those of 1988 and says its efforts to expand into other areas of financial planning will continue to play a prominent role. Operating profit rose 3.8 per cent to DM112.8m last year. AMB plans to maintain its

acquisitions in recent years has become one of Europe's largest insurance companies says it plans to ask shareholders for permission to increase its nominal capital by DM110m for unspecified future pur-Chairman Mr Helmut Gies

dividend at DM12.50 a share.

The company, which through several strategic

says he has no concrete plans for the money, but says AMB wants to be able to act quickly in the burgeoning European

This announcement appears as a matter of record only.

March, 1989



CMB Finance plc ECU 600,000,000 Multiple Option Facility

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Managers

The Sumitomo Bank, Limited

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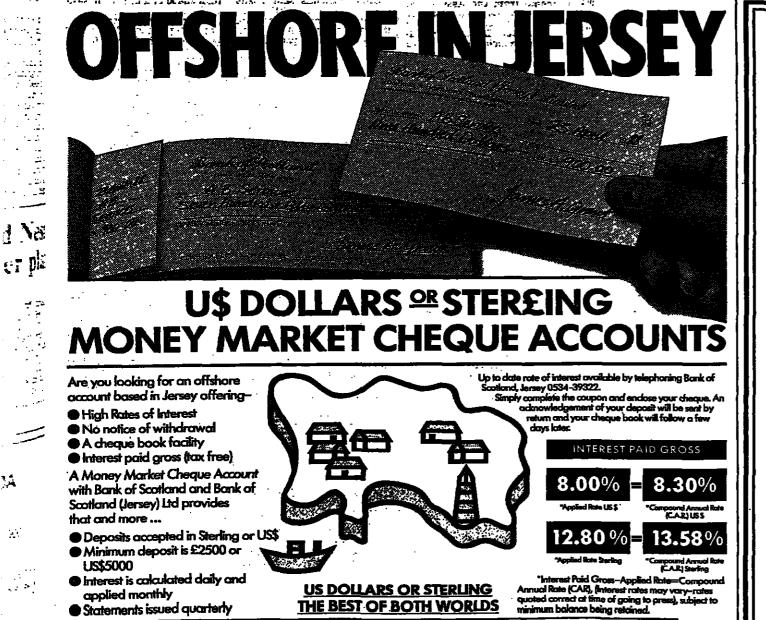
Société Générale Tender Panel Agent

Lloyds Bank Pic

Banco di Roma

National Westminster Bank PLC **Facility & Swingline Agent**

Bankers Trust International Limited Arranger



To Bank of Scotland Money Market Accounts Centre, (minimum £2,500) I/We enclose my/our chaque for £ 4 Don Road, St Helier, Jersey. made payable to Bank of Scotland I/We wish to open a Money Market Cheque Accour I/We enclose my/our cheque for US\$ I/ We are aged 20 or over (Please complete in BLOCK CAPITALS). made payable to Bank of Scotland (Jersey) Ltd. Should the cheque not be drawn on your own Bank Account, pla FULL NAME(S). details of your bankers. MY/OUR BANKERS ARE BRANCH ACCOUNT NO. SIGNATURE(S).

for joint accounts all parties must sign the application but only one signature

will be required on cheques.

UK GOVERNMENT ECU TREASURY BILLS

For tender on 13 June 1989

 The Bank of England announces the issue by Her Majesty's Treasury of ECU 800 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 13 June 1989. An additional ECÚ 50 million nominal of Bills will be allotted directly to the

2. The ECU 800 million of Bills to be issued by tender will be dated 15 June 1989 and will be in the following

ECU 300 million for maturity on 13 July 1989 ECU 300 million for maturity on 14 September 1989 ECU 200 million for maturity on 14 December 1989

3. All tenders must be made on the printed application forms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Securities Office, Threadneedle Street, London not later than 10.30 a.m., London time, on Tuesday, 13 June 1989. Payment for Bills allotted will be due on Thursday, 15 June 1989.

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for.

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted. in whole or in part. For applicants who have requested credit of Bills in global form to their account with Euro-clear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at the Securities Office of the Bank of England after 1.30 p.m. on Thursday, 15 June 1989 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005516 with Lloyds Bank Plc, International Banking Division, PO Box 19, Hays Lane House, 1 Hays Lane, London SE1 2HA. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 500,000, ECU 1,000,000, ECU 5,000,000 and

7. Her Majesty's Treasury reserve the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government ECU Treasury Bill Programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989. All tenders will be subject to the provisions of that Information Memorandum

9. The ECU 50 million of Bills to be allotted directly to the Bank of England will be in the following maturities: ECU 25 million for maturity on 14 September 1989 ECU 25 million for maturity on 14 December 1989

These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Memorandum in order to facilitate

10. Copies of the Information Memorandum may be obtained at the Bank of England. UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1877, the National Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

Bank of England 6 June 1989



US \$300,000,000 Floating Rate Notes due 1992

In accordance with the provisions of the Notes, notice is hereby given that for the six months Interest Period from 7th June 1989 to 7th December 1989 the Notes will carry an interest rate of Vs per cent. per annum. The relevant Interest Payment Date will be 94) per cent. per annum. The relevant Interest Payment Date will b 7th December 1989 and the Coupon Amount per USS 50,000 will be USS 2,414.58 and per USS 250,000 will be USS 12,072.92

> Reference Agent **Bank of Tokyo International Limited**



Annual General Meeting

he Annual General Meeting took place in Limoges on May 24, 1989, with Mr. François GRAPPOTTE in the chair. All the resolutions submitted were approved.

The 1988 consolidated financial statements show: a 14 % rise in net sales to FRF 5.616 billion,
a 30 % increase in net income to FRF 595 million.

LEGRAND will be raising its dividend per share by 12%, Le.:
• FRF 42.50 (FRF 63.75 including tax credit) per ordinary share,
• FRF 68.00 (FRF 102.00 including tax credit) per preferred share.

Taking account of interim dividends declared on February 1, 1989, the balance will be made payable as from June 15, 1988. In his address, the Chairman stated that the Group will work tirelessly to strengthen its positions in its line of business, at home and abroad. As of the end of April 1989, consolidated sales were up 13% (10% on a comparable basis).

FINANCIAL INFORMATIONS: O. BAZIL G. SCHNEPP & (1)43.60.01.80 (FRANCE).

INTERNATIONAL COMPANIES AND FINANCE

NTT strives to rehoist its standard

Japan's largest company is stuck in a mire reports Stefan Wagstyl

year ago as president of Nippon Telegraph & Telephone, Japan's largest company, he seemed to have everything going for him.

The hand-picked successor of Mr Hisashi Shinto, one of Japan's greatest post-war industrialists, Mr Yamaguchi inherited a company brimming with confidence. NTT was riding high on the stock market. It was the most popular company among graduate job-seekers. It had the ear of bureaucrats and government ministers. It was seen as a standard-bearer of Japan's

advance in high-technology.

Mr Yamaguchi could hardly have imagined that a year later he would be touring NTT's offices throughout Japan try-ing to restore his employees broken morale.

The immediate reason for the company's fall from favour has been the involvement in the Recruit affair of Mr Shinto and two other former NTT executives. The three are awaiting trial on charges of bribe-taking.

But the malaise goes deeper

than this. At bottom, NTT is the victim of the unrealistic expectations which were fos-tered both inside and outside the company.

NTT shares, which were originally sold at Y1.6m (\$11,200) apiece, doubled in days to Y3.2m. A year ago they were still above Y2.4m. Now they are at Y1.5m. People were carried away by the glamour created by the group's privati-sation masterminded by Mr Shinto. Instead, of building on his mentor's successes, 64-

year-old Mr Yamaguchi has to pick up the pieces.
In an interview with foreign journalists Mr Yamaguchi identified dealing with the aftermath of the Recruit affair as his first priority. He cave as his first priority. He says that the group will not be making any organisational changes following the affair since the scandal involved a few individnals, not the company as a

He adds that the direct effect on the company's sales has been negligible. People have not stopped using the tele-phone. Several public bodies

By Clarks Sherwell in Sydney

ADELAIDE STEAMSHIP, the

Australian conglomerate controlled by Mr John Spalvins, yesterday took a strategic 15.7

per cent stake in AWA, the

restructured communications

and electronics group formerly known as Amalgamated Wire-

Adsteam acquired the bulk

Assets for A\$1.10 per share,

well above market price. AWA shares finished at A\$1.15, up 10

cents on the day in an other-

who recently made a tilt at Tootal in Britain, yesterday acquired control of Brick & Pipe Industries, the largest

brickmaker in Victoria and

South Australia. His move into a new manu-

facturing sector was initiated at the end of last month, when

he launched a A\$4 per share offer which valued Brick &

HOOKER CORPORATION, the

Australian property develop-ment group controlled by Mr George Herscu, has embarked on a drastic asset sales pro-gramme to slash its burden-

some gearing ratio.

Mr Herscu has said the plan

aims to realise A\$1bn (US\$756.4m). But the figure is doubted by analysts, particu-larly as Hooker has effectively declared itself a forced seller in

Dwindling confidence in Hooker has been reflected in a

sliding share price. From A\$2.10 at the end of last year, Hooker shares fell to A\$1.60 in

early May. By this week they had tumbled to A\$1.23.

The biggest worry has been heavy borrowing - the group's

debt is put at A\$1.2bn — and reported liquidity problems in its US "supermail" retail properties and retailing chains.

Earlier this year Australian

Ratings, the local credit rating agency, downgraded the company to BB minus after the

National Companies and Secu-

ritles Commission (NCSC),

Australia's stock market

watchdog, objected to Hooker's

accounting treatment of debt.
Mr Herscu, in last week's

announcement of the A\$1bn asset sale, said Hooker was "currently negotiating" the dis-

a weakening market.

less Australasia.

I hen Mr Haruo Yama have temporarily crossed NTT guchi took over a off their list of suppliers for building contracts. But Mr Yamaguchi says the losses amount to just a few billion

> Nevertheless, Mr Yamaguchi recognises there is a great deal to be done before NTT recovers from the Recruit affair. "We would very much like to regain the trust of our customers," he says. The group has launched a campaign called Best Service, designed to remotivate staff some of whom have suffered abuse and insults from customers over the company's involvement in Recruit.

> The campaign is more than just a slogan. Industry analysts are concerned that, in the wake of Recruit, NTT might revert to the bureaucratic atti-tudes which prevailed before privatisation, when the com-pany was often criticised for being insufficiently responsive to customers.
>
> Mr Yamaguchi says there is

> no change in the commitment NTT has fostered since privati-sation to becoming more cus-tomer-orientated. Similarly, he says there will be no change in NTT's plans to expand new high-technology businesses, a strategy which was close to the heart of Mr Shinto and which led directly to NTT's involve-ment with Recruit. Recruit leased high-speed

data transmission circuits from NTT and rented them out to clients. The business has continued in the wake of the scandal, though Recruit is finding it difficult securing new cus-

tomers because of the affair.

At the same time as Mr
Yamaguchi is dealing with the Recruit fall-out, he is under pressure from three other firections - increasing competition in Japanese telecommunications, growing demands for a break-up of NTT, and preparations for the planned sale of another tranche of govern-ment-owned NTT stock later this year.

Last year, NTT reported a 39 per cent increase in pre-tax profits which catapulted it to the top of the earnings table, above such giants as Nomura Securities and Toyota Motor. In the year to March, profits dropped 14 per cent to Y425bn. Despite the strength of the

wise weaker market.

AWA welcomed Adsteam's

presence, saying it would bring greater stability and financial

strength to the group. Adsteam

said the acquisition repre-sented a long-term investment.

Broking analysts said AWA had looked a takeover possibil-

ity for some time, and suggested that Adsteam could

lift its stake higher or await an

(IEL), the Australian arm of Sir Ron Brierley's New Zealand-

based empire. IEL had bid A\$3.50 per share,

the same price as it had paid the building products group CSR for its 18.2 per cent hold-

ing.
The purchase gave it an overall stake of 38 per cent.

posal of all its Australian retail

activities, its US housing port-folio and the Merksamer Jewelers US retailing operation.

Also for sale were its interests in property funds management and resources. In addition, a number of property assets would be sold or joint

Still being retained, he said,

were the group's housing, project development and real

estate operation in Australia,

and its project development, retail stores and real estate

operation in the US.

Mr Herscu's Hersfield group
acquired a controlling 54 per
cent interest in Hooker in 1985.

The other principal shareholders are Mr Rodney Adler's FAI

Insurances, with around 8 per cent, and Barlile Corporation,

controlled by a former Hooker

managing director, with around 2.5 per cent.

in an attempt to take the group private with an offer of A\$2.30

per share.

• Hooker sald last week it

would sell a number of US

industrial properties to Kajima, the large Japanese

construction group.
Industrial Developments
International, a Kajima subsidiary, will pay US\$60m for the

Last year, Mr Herscu failed

Goldberg buys Brick & Pipe

MR ABE GOLDBERG, the another bid some two weeks Australian textile magnate earlier by Industrial Equity

offer which valued Brick & Mr Goldberg made his count-Pipe at around A\$380m er-offer after suaring a 19.8 per (U\$\$287.4m).

US\$287.4m). cent stake through purchases His surprise offer followed from Brick & Pipe's two other

Hooker starts drastic

asset sale programme

Adsteam purchases 15.7% AWA stake

offer from a mainstream elec-tronics group — or both.
Yesterday's announcement the AMP Society.



Haruo Yamaguchi: dealing with Recruit aftermath

expanding Japanese economy, revenues were flat because NTT was forced to cut rates in response to competition from its fledging rivals. These new companies were licensed only in 1986 in a key element of the Government's liberalisation of telecommunications.

From six companies in 1986, the number of new carriers allowed to install their own circuits has soared to 39. By concentrating on the most profit-able parts of the market, especially long-distance calls, they have hit NTT's profits hard. NTT says that on the lucrative corridor linking Tokyo, Nagoya and Osaka, the new companies' share has climbed from 2 per cent in 1988 to 9 per cent in 1989. Mr Yamaguchi says that at peak times the new companies share hits

30 per cent. NTT expects no end to the pressure on its long-distance

Quite apart from competi-tion, the Government is keen to see more rate cuts for the sake of promoting the eco-nomic development of some of the remote, investment starved corners of Japan.

In response, NTT is stepping up marketing - through the Best Service campaign - and cutting costs. The payroll has fallen from 297,000 two years ago to 280,000. It will fall further. The group is also investigation. ing in new services. This month it introduced Green Communication System – a mobile telephone for golfers, complete with optical fibre

follows a disappointing half-year profit result at the end of March, which coincided with

the surprise resignation of Dr

Peter Crawford as managing

His move was said to have

been the result of differences over the restructuring pro-gramme with Mr Peter Mason, AWA's chairman, who headed

Pacific Assets. AWA's other

principal shareholders are the Capita Financial Group and

major shareholders, the Swire group and Hanson Trust, leav-ing them with around 5 per cent each.

voked confusion over whether CSR was committed to sell to

IEL, which would have denied CSR shareholders the better

But IEL and CSR apparently agreed to divide the profit from

selling the CSR stake to Mr

Goldberg at A\$4 instead of A\$3.50, and he duly won

Mr Goldberg's move pro-

able for linking computers. But the group is under no

of NTT's future currently being carried out by the Minis try of Posts and Telecommunications. This was originally intended to be a post-privatisa-tion assessment of NTTs per-formance. But it has rapidly become dominated by a single issue - should NTT be broken up, as AT&T was in the US, or allowed to remain a single

company.
NTT's critics have long argued that a company with 280,000 staff is too big to manage. Some of them have seized on the Recruit affair as proof of fundamental weaknesses in

management structure. Mr Yamaguchi is preparing to give evidence to the ministry in the next few weeks. He intends to argue that the costs of breaking up NTT into regional companies will be very high, since the separate units will have to duplicate many services. Also, there is no good way of dealing with central operations such as NTT's highly regarded

"Telecommunications are

The argument over a possible break-up of NTT is certain to affect plans for the sale of future tranches of NTT shares. The Ministry of Finance, wor-ried about the depressed share price, has indicated that a sale planned for this autumn will be scaled down. It may even be

connections instead of wires to minimise the risk of lightning. On a bigger scale, NTT has brought forward from 1992 to next year the start of ISDN, an integrated digital network covering the whole of Japan suit-

illusions about the impact of competition on its financial performance. Mr Yamaguchi says revenues and profits will be level "for a while."

In the meantime, Mr Yama-guchi has to consider a review

not like railways," says Mr Yamaguchi, referring to the fact that Japan National Railways has been divided into regional companies prior to eventual privatisation. Regional telecommunications companies would have difficul-ties introducing all kinds of changes, including technologi-cal ones, simultaneously.

Last year the 75-year-old group said its strategy was to concentrate on its core busi-nesses of high technology

defence and aerospace, commu-nications systems and net-

works, information systems

and electrical and electronic

group reported losses of A\$50m (US\$37.8m) as a result of disastrous foreign exchange

REMY FINANCE BY,

FRF 360.000.000 FLOATING RATE NOTES

DUE 1993

For the time months, June 6, 1886, to Suptember 5, 1869, the rate of interest has been found at 9 % P.A.

The interest due on Septen

6, 1989 against coupon or 11 will be FRF 230- and tres been

computed on the actual number of days etapsed (92) divided by 360.

SOCIETE GENERALE

ALSACIENNE DE BANQUE 15, Avenue Emile Restur

LIDENBOURG

The restructuring pro-

U.S. \$100,000,000



Takugin International (Asia) Limited (Incorporated in Hong Kong)

Guaranteed Floating Rate Notes due 1997 Guaranteed as to payment of principal and interest by The Hokkaido Takushoku Bank, Limited (Incorporated in Japan)

In accordance with the provisions of the Notes, notice is hereby given, that for the six month interest Period from April 11, 1989 to October 11, 1989 the Notes will carry an interest Rate of 10% % per annum. The interest amount payable on the relevant interest payment date, October 11, 1989 will be U.S. \$546.48 for each Note of U.S. \$10,000 denomination and U.S. \$13,661.46 for each Note of

By: The Chase Manhettan Bank, N.A. London, Agent Bank

June 7, 1989



TOPS SERIES III LIMITED (Incorporated with limited liability in the Cayman Islands)

U.S.\$110,000,000

Series III Floating Rate Trust Obligation Participation Securities due 1992 Secured by a Charge on a Portfolio of Fixed Rate Bonds and Notes with an aggregate principal amount of U.S.\$159,810,000

For the period 2nd June, 1989 to 4th December, 1989 the securities will carry an interest rate of 9.65% per annum with a coupon amount of U.S.\$12,397.57 per U.S.\$250,000 denomination and U.S.\$24,795.14 per U.S.\$500,000 denomination, payable on

Listed on the Luxembourg Stock Exchange

Bankers Trust Company, London

Agent Bank

Korea Exchange Bank £100,000,000

Floating Rate Notes due 1994

Sterling Denominated Notes

In accordance with the provisions of the Notes, notice is hereby given that the Rate of Interest for the Interest Period 31st May, 1989 to 31st August, 1989 has been fixed at 14.5625% p.a. The Coupon Amount payable on 31st August, 1989 against presentation of coupon number 19 will be £183.53 for the £5,000 Notes and £9,176.37 for the

Bankers Trust Company, London

£250,000 Notes

NOTICE OF PREPAYMENT



US\$ 40,000,000 8% Convertible Notes due 2001

Convertible into ordinary shares of Espirito Santo Financial Holding S.A. Issued on a fiduciary basis by Kredietbank S.A. Luxembourgeoise representing beneficial interests in a loan made by it to

In accordance with paragraph 6 (b) of the Terms and Conditions of the Notes, notice is hereby given that Espirito Santo Financial Holding S.A. will redeem on the next interest payment date, i.e. July 23, 1989 the total amount remaining outstanding of the above-mentioned Notes at 104% of their principal amount.

Notes may be converted into ordinary shares of Espirito Santo Financial Holding S.A. up to and including the last business day in Luxembourg prior to July 23, 1989, in accordance with paragraph 5 of the Terms and Conditions of the Notes.

Payment of interest and premium due on July 23, 1989 and reimbursement of principal will be made in accordance with the Terms and Conditions of the Notes. Interest will cease to accrue on the Notes

as from July 23, 1989

Lexembourg, June 7, 1989

The Conversion, Transfer and Paying Agent



KREDIETBANK

S.A. LUXEMBOURGEOISE



All of these securities having been sold, this advertisement appears as a matter of or record only.

\$200,000,000

Finnish Export Credit Ltd

91/2% Notes due June 1, 1999

Goldman, Sachs & Co.

Merrill Lynch Capital Markets Morgan Stanley & Co.

Prudential-Bache Capital Funding

MAY, 1989

INTERNATIONAL CAPITAL MARKETS

Record fixed-rate \$ deal for BAT

THE LARGEST fixed-rate dollar deal by a non-US corporate borrower was launched for BAT International Finance

New-issue activity on the Euromarkets as a whole con-tracted, however, with syndi-cate managers complaining of frustration at the lack of new

paper.
The BAT \$400m five-year deal, brought by Credit Susse. First Boston with a 9% percent coupon, was priced at 101% to yield some 88 basis points over Treasuries. CSFB launched the deal at less 1% bid, inside fees and offering a spread of 82 basis points over

Traders reported good demand for the bonds amid comment that the terms were extremely generous. Although there were some institutions unable to buy the paper because of BAT's credit rating, dealers reported large orders in the market from a wide range of invastors.

The lead manager was quoting the paper at less 1.55 bid, well inside underwriting fees of 1% per cent in late trading brokers were highlights. brokers were bidding the bonds at less 1.49, while the

BAT Int. Finance(a) Nippon Sheet Gless Co.4 Omron Tatelst Electronics Nippon Off & Fals Co.4

AUSTRALIAN DOLLARS Johnson & Johnson(a)

Swedish Export Credit®

spread against Treasuries was tightening to around 78 basis

Mr Richard Desmond, BAT Industries group treasurer, said the deal marked the company's return to the Euromar-ket after a long absence. The purpose of the issue was to refinance some of the

INTERNATIONAL BONDS

short-term borrowings for last year's takeover of Farmers, the US insurance company. The issue proceeds were accordingly unswapped.

Mr Desmond commented

that the deal had been priced to achieve broad distribution and a liquid benchmark and that the terms had taken the large size of the deal into BAT intends to refinance

more of its borrowings on the Euromarkets as opportunities arise, but is not announcing a formal funding pro-

In Switzerland, more straight-maturity issues encouraged sentiment,

NEW INTERNATIONAL BOND ISSUES

101.95

1013

FT INTERNATIONAL BOND SERVICE

VEII STRAIGHTS
Canada 5-1, 93...
Canada 5-1, 93...
Emofima 5-1, 93...
Ireland 5-1, 93...
Ireland 5-1, 93...
Norway 5-1, 95...
World Bank 5-1, 98...
World Bank 7-94...
World Bank 7-94...

1980

1992

warrants. \$Convertible. \$\phi\text{Final terms. a) Non-callable. b) Coupon fixed as indicate.

a. d) Call after 10-years at 101½ declining \(\frac{1}{2} \times \text{p.s. e) Coupon and put option fixed coupon fixed as indicated. Yield to put cut by \(\frac{1}{2} \) to yield 2.971%. g) Coupon fixe nationated yield to put 3.28%.

183

12%

100bn

recent Dai-Ichi convertible public tranche was trading at less 4 bld, after final terms were set by Crédit Suisse, the

lead manager.
The World Bank tapped the market with a SFr100m 15-year deal via Swiss Bank Corporation. The bonds came with a 6% per cent coupon and were priced at 101%. The issue is callable at its launch price after 10 years and on coupon dates thereafter at a declining

The lead manager was quoting the bonds at less 1% bid, inside underwriting fees. There was comment from some dealers that the maturity was too long for some investors.

Shearson Lehman was the snearson Lehman was the lead manager of a SFr100m 10-year deal for Great Belt, the Danish construction company. The government-guaranteed bonds offered a 6 per cent coupon and were quoted inside fees at less 1% bid by the lead

In Germany, prices eased around 15 plennigs amid thin turnover worries over the strength of the US dollar. Lon-

CSFB
Dalwa Burope
Momura Int.
Yamaichi Int. (Europe)
DKB Int.
Yamaichi Int. (Europe)
Yamaichi Int. (Europe)
Yamaichi Int. (Europe)

1/5 Bankers Trust Int.

13/7 Italian International Bit

n/a n/a n/a n/a

although secondary market don & Edinburgh Trust came turnover was still thin. The to the D-Mark sector for its first borrowing on the international bond market, issuing a DM100m seven-year deal via

The bonds carried a 7% per cent coupon and were priced at

Dealers reported an average response because of lack of familiarity with the borrower, and the lead manager was quoting the bonds at ¼ point outside underwriting fees at less 2½ bid. At that level the bonds yielded around 8.08 per

There was comment that it was possible to conduct attractive asset swaps.
Late in the day, a L100bn

three-year issue was launched for Swedish Export Credit (SEK), with Italian Interna-tional Bank as the bookrunner and Bankers Trust and Monte Dei Paschi di Siena as joint lead managers.
The bonds came with a 12% per cent coupon and were quoted at less 1% bid, on

 Daiwa Bank (Capital Management) yesterday began making market in Euroyen

Seoul set to clear Sammi Eurobond

By Maggle Ford in Seoul

FOLLOWING the South Korean Ministry of Finance's decision to raise the capital of the Korea Fund, listed on the New York Stock Exchange, the ministry is shortly expected to approve the issue of the country's first bond with warrants.

The Korea Fund, in which foreigners can invest indirectly in South Korean equities, was set up in 1984 with capital of \$60m, later raised to \$100m. Its capital will now be increased to \$150m.

Approval of the C\$50m (U\$\$41.6m) bond, to be issued on the Euromarket, will enable Sammi Steel, a specialty steel maker based in Seoul, to complete the financing for its purchase of a subsidiary of Rio Algom, the Canadian company, nounced last month.

Sammi's acquisition, for C\$250m, is the first big foreign purchase by a South Korean company. The deal involves the sale of Rio Algom's Atlas Specialty Steel subsidiary and will make Sammi the largest specialty steel maker in the

Sammi is believed to be interested in the technology offered by Atlas, and in opportunities to expand its export markets under the US-Canada

The company is the second-irgest South Korean steelmaker and a hig supplier of spe-cial steels to Hyundai Motor, the South Korean car maker which recently opened a plant in Canada.

The South Korean Govern-ment has encouraged companies to open plants abroad to avoid trade friction in export

South Korean steelmakers, including Posco, the state controlled but partially privatised market leader, have been enjoying record profits due to the sharp rise in domestic demand as a result of South Korea's phenomenal growth in both exports and domestic

demand.

Rio Algom made operating income of C\$15.7m on sales of C\$449.3m in 1987 and has produced steadily improving results over the past three years.

The deal is to be financed by

a combination of a C\$200m syndicated loan arranged by three leading South Korean banks, along with the C\$50m bond.

South Korean convertible bonds have become increas-ingly popular since the Government announced that, in 1991, foreign investors holding bonds will be allowed to convert them into shares on the Seoul stock market.

At present, the market is closed to foreign investors, except through the bonds and two funds, including the Korea

premium.

The decision by Sammi to buy a foreign company rather than open up its own plant follows increasing interest among local business groups in foreign mergers and acquisitions.

Thailand approves Europaper plan

THE Thai .Cabinet has approved a Finance Ministry plan to issue up to US\$300m worth of Kurocommercial paper this month, Reuter reports from Bangkok.

A government spokesman said the paper, of up to one-year maturity and redeemable in US dollars, yen, Ecus or other currencies, was expected to carry yields below London interbank offered rates.

The spokesman said the min-istry planned the issue to raise short-term funds for Thai state enterprises which would use These Bonds having been sold, this announcement appears as a matter of record only.



U.S.\$150,000,000

Japan Finance Corporation Municipal Enterprises 97/s per cent. Guaranteed Bonds due 1999

unconditionally and irrevocably guaranteed as to payment of principal and interest by

Japan

Issue Price 1011/2 per cent.

IBJ International Limited

Merrill Lynch International Limited

Bank of Tokyo Capital Markets Group

Chase Investment Bank

NEW ISSUE

Credit Suisse First Boston Limited

Goldman Sachs International Limited

LTCB International Limited

Morgan Stanley International

Nomura International pic

Salomon Brothers International Limited

Swiss Bank Corporation

S. G. Warburg Securities

a sale and a first

Banque Paribas Capital Markets Limited

Crédit Commercial de France

Deutsche Bank Capital Markets Limited

Kleinwort Benson Limited

J.P. Morgan Securities Ltd.

NatWest Capital Markets Limited

Prudential-Bache Capital Funding

Shearson Lehman Hutton International

UBS Phillips & Drew Securities Limited

Yamaichi International (Europe) Limited

This announcement appears as a matter of record only.

A STATE OF THE STATE OF

New Issue

\$90,475,000



LAC Minerals Ltd.

7,700,000 Common Shares **3.850.000 Common Share Purchase Warrants** — 1989 Series

Price: \$11.75 per Unit

RBC Dominion Securities Inc.

Wood Gundy Inc.

Gordon Capital Corporation

Nesbitt Thomson Deacon Inc.

ScotiaMcLeod Inc.

May 1989

| Tentropic | 1314 | 93 AS | 75 | 7945 | 951a +044 +044 | 14.88 |
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CONVENTIBLE
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Alcond 6'4, 02 U.S.
Alcond 6'4, 03 U.S.
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† Coly one market maker supplied a price

coupen.

Committee Sones: Denominated in dollars unless otherwise indicated.

Cles. day "Change on day. Cav duth "First data of conversion into stans. Cav. prica "Rominal amount of bond per starre expressed recurrency of chare at conversion rate fixed at lease. Prem — Percentage premium of the currents factive price of acquiring shares via the bond over the most recent price of the shares.

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them to refinance their out-standing higher-cost debts

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iss Bas Brid

10 GT. 12.5

Year

Auc 200

40.40

INTERNATIONAL CAPITAL MARKETS

two years of the January 1984

acquisition, Lloyds was judged

to have paid a bargain for a healthy, if somewhat tarnished, name.

Now, after its link with

Abbey Life, the UK life insur-

ance group, it seems to be

Lloyds, rather than SMH, which has altered. After quit-ting the UK equities and gilts

market and, more recently, pulling out of US government bond trading in New York, Lloyds' attention appears to be focused more on UK retail

financial services than either

securities or continental

Not surprisingly, Mr Brian Pitman, Lloyds' chief execu-

tive, sees it differently.
For a start, he strongly denies that the bank has quit stockbroking. "We are certainly in the business of stockbroking. Just look at our registrar and fund management.

trar and fund management businesses," he says.

Growing affluence in both the UK and continental Europe

is Mr Pitman's main theme

Taking his one from the Brit-ish Government's privatisa-

tions, he sees more private money chasing an ever-wider range of investment opportuni-

What has already happened in the UK will be repeated on the Continent, he thinks. So for a bank like Lloyds, which

believes it still has a special franchise among wealthier cli-

ents, money management and

private banking are obvious

Hence a role for SMH. Inves-

tors, principally - but not exclusively - from the UK, are

diversifying their portfolios,

especially in terms of curren-

Charles + or Bet Three Green P.E. Price - Dis. Cor's Yabis Basis

US Treasuries unmoved by lower Fed funds range

By Janet Bush in New York and Stephen Fidler and Andrew Freeman in London

THE US Federal Reserve yesterday signalled clearly that has eased monetary conditions and has pushed its target range for Fed Funds around % point lower to perhaps a range of 9½ per cent to 9% per cent. The reaction in the Treasury bond market was undramatic

GOVERNMENT BONDS

as the easier Fed Funds rate on Monday had convinced many in the market that the Fed was already easing policy a notch. In late trading, the short end of the yield curve was around to point lower while the benchmark long bond was quoted as much as % point higher. The long bond was ½ point up to yield 8.40 per cent.

Fed Funds traded between 9% per cent and 9½ per cent yesterday. The Fed's intervention time passed without the announcement of a draining operation through matched sales which would have been expected if policy was

The upward bias at the long end of the market was attributed more to continued strength in the dollar than the confirmation of easier monetary policy which has been built into the rate structure in the bond market for weeks. Indeed, short-term rates have aiready discounted a much more aggressive easing move by the Fed.

Although there has been a mounting body of evidence that the economy is slowing and the dollar remains well bid, inflation still remains above acceptable levels as far as the Fed is concerned. It seems unlikely, given the heated debate within the Fed on this limited and cautious move, that any further easing can be quickly agreed on.

The recent bonds rally has been shared by the short end of the yield curve which is trading at yields substantially below even the new Fed Funds rate target. The yield on the 8.75 per cent 1991 issue was yesterday quoted at 8.40 per cent compared with a Fed Funds rate of 9°_{10} per cent.

Benchmar	k government	BONDS

		Coupon	Nec Date	Price	Change	Yleid	#GGK	ego Monan
UK GILTS	3	13.500	9/92	105-17	+ 2/32	11.42	11.33	10.99
		9.750	1/98	94-11	-3/32	10.77	10.47	10.26
		9.000	10/08	93-13	-3/32	9.76	9.42	9.27
US TREA	SURY +	9.125	5/99	105-05	+4/32	8.35	8.68	9.08
•-		8.875	2/19	105-05	+ 13/32	8.40	8.63	8.95
JAPAN	No 111	4.600	6/98	95.1688	-0.202	5.40	5.48	5.34
	No 2	5.700	3/07	105.4005	-0.099	5.12	5.17	5.07
GERMAN	Y	6.375	11/96	96.0000	-0.250	6.96	7.08	6.92
FRANCE	BTAN	8.000	1/94	96,8126	-0.052	8.85	8.99	8.84
	OAT	8.125	5/99	96.0200	-0.020	8.73	8.87	8.74
CANADA	•	10.250	12/98	104.6000	-0.200	9.50	9.76	10.10
NETHERL	ANDS	6.7500	10/98	98.2750	-0.025	7.31	7.50	7.19
AUSTRAL	JA AL	12.000	7/99	90.9690	+0.779	13.65	14.01	13.34

In West Germany, prices fell by 20-30 pfennigs in the bund market in morning trading, but had recovered 5-15 plennigs in afternoon trading.

Although it had little impact on the market, the Bundes-bank said it would make allo-

lar slipped again.

cations tomorrow on a 35-day variable rate repurchase tender to replace \$12.1bn of liquidity draining from the system. In Paris, the market also ral-lied from its lows. The Matif September bond contract lost only 8 basis points on the day

IN MANY European bond mar-

kets, the swings of the dollar

provided the main focus of

activity. As the US currency surged in morning trading, so

the markets lost ground. In the

afternoon, prices made up

some of their losses as the dol-

UK government bonds had an inactive day yesterday, with prices ending largely unchanged at the shorter end of the maturity range and about ¼ point lower at the long end. There was thin turnover on the futures market. Dealers said it was a case of

old worries persisting. After a good opening, sterling reverted to its weak form amid a general lack of confidence in the government's exchange rate policy. A parliamentary debate on the economy today is expected to include a defence of sterling by Mr Nigel Lawson, the UK Chancellor.

Investors are reported to be looking ahead to inflation and average earnings figures next week. The latest round of fore casts from leading economists was pessimistic, inspiring talk of 16 per cent base rates.

Salomon Inc credit facility increased

auction and for each of the respective tranches will be set in response to market demand through competitive bidding. Settlement for all three tranches of the offering has been set for June 15.

Price up Cate High Low

Crédit **Agricole** moves into **Switzerland**

By William Duilforce in Geneva

CREDIT AGRICOLE, Europe's biggest banking group in terms of assets and shareholders' funds, yesterday inaugurated a branch in Geneva in its first move into the Swiss market.

This is the latest step under an internationalisation strategy for France's "farm bank," which was privatised in January 1988 and which is now owned by 92 caisses région-

Mr Philippe Jaffre, its direc-tor-general, sald a subsidiary would be established in Lux-embourg later this year and plans were ripe for Singapore and Los Angeles.

With these three installa-tions Credit Agricole will have footholds in 20 countries, including Tokyo, New York and London.

and London.

The Geneva branch, with an initial staff of 40, will concentrate on trade finance, foreign exchange and Treasury operations, and will try to pen-etrate the market for private asset management. It also aims at exploiting its regional character by raising Swiss finance for property develop-ments across the French bor-

der.
With assets of about
FFr1,300bn (\$195bn) and
FFr50bn in equity, Crédit
Agricole ranks just behind the
six biggest Japanese banks on
a world scale.
It will publish consolidated
accounts for the first time next
year. Mr. Jaffre said not consol.

year. Mr Jaffre said net consolidated earnings for 1983 would have been about FFr4bn and would need to be improved. • The French Government lans to raise about FFr10bn of fresh cash at its next auction of Treasury debt, AP-DJ

reports from Paris.

The offering is to be spread over three different tranches, covering about FFr5bn of 18-week bills, FFr2.5bn of 26week bills and FFr2.5bn of 52week hills The final total raised at the

cies, Mr Pitman argues. Their bank has to offer them the widest choice, meaning that Lloyds needs to be well placed not just at home but in a number of key continental markets too, notably Germany. Lloyds' growing interna

Lloyds defines a role for SMH

Haig Simonian on the UK bank's plans for its German offshoot

the UK bought the bulk of Schröder, Münchmeyer, Hengst (SMH), the West German private bank then still overshadowed by a massive lending scandal which later took its managing partner to jail, it seemed what bankers might politely call a "coura-geous" step. Later, as the German capital markets were liberalised and foreign institutions scrambled in, opinion changed. Within

Brian Pitman: focusing on growing affluence on Continent

executives. The change was

the last stage in a process which began with SMH's grad-ual recovery after the takeover when it relied heavily on the

association with Lloyds - fol-lowed by consolidation after

the incorporation of Lloyds

German branches in April 1985. They say that moving to a

partnership marks SMH's com-

plete recovery by emphasising the bank's independence and

domestic and its parent's inter-national ambitions. Lloyds'

decision to sell up to 25 per

cent of SMH to its senior management, led by the five man-

aging partners who now have

just under 5 per cent between them, is recognition of the fact

that the previous arrangement

was no longer suitable follow-ing SMH's recovery and

Lloyds' departure from much of the securities business. Rather than an unhappy

compromise, SMH staff argued

that the bank had to be run more flexibly and at greater

nvolving senior executives

them a stake in the business is nothing new to Lloyds, Mr Pitman stresses. Similar steps have already been taken at its Australian and Brazilian

subsidiaries. The use of equity options — the obvious method

was ruled out in Germany because of the high local capi-

tal gains tax rates.
According to Mr John Hob-ley, SMH's former chief execu-tive, the decision to go for part-

nership also fulfilled some very

German aims. With demand for

good securities staff still boom-ing in Frankfurt, broadening SMH's ownership should boost

motivation and morale, The

sale of shares to the partners
- which Lloyds also helped to

LONDON TRADED OPTIONS

from the underlying share market to the options, on the so-called "buy-write" basis. The deal comprised the buying of 2.5m shares

and the selling of options stand-ing to equal this amount, in the July 140 calls. The business in Storehouse options was com-prised in 42 bargains, at an aver-age 91.8 contracts aplece. Cable & Wireless business

amounted to 2,328 contracts, made up of 1,652 calls and 676 puts, as the underlying price of the share recovered 15p to 465p. On Monday there were some 4,300 contracts traded in the state of the underlying above

more closely by giving

distance from its parent.

The move fits both its own

private status.

tional private banking strategy revolves around its Swiss private bank, set up in 1978. The private banking business also incorporates fund management in the Channel Islands and Isle of Man, as well as operations in such plush locations as Monte Carlo, Cannes and parts

Fund management is where SMH fits in. The German bank has been "consistently excel-lent" in managing other people's money, says Mr Pit-man. The total is thought to amount to well over DM2bn (\$1.02bn) now, and almost 10 per cent of its 410 employees are involved in research and fund management, out of 180 in securities as a whole.

of Spain.

Under Lloyds' plans, SMH will increasingly look after more than just its German clients' money. Already it advises Lloyds on two German funds

run out of the UK.

However, neither Lloyds nor
SMH wants the closer link to jeopardise the German bank's traditional contacts with UK institutional investors, which

pre-date the Lloyds takeover.
Partly because of its concentration on research, SMH still has "a very strong Angio relationship," Mr Pitman says.
Lloyds is keen to let it develop its institutional broken. develop its institutional brok-ing business. But the crucial event in SMH's relationship with its parent was undoubt-edly its adoption of a partnership structure, typical of Ger-man private banking, last

On the surface, Lloyds' decision to sell off some of SMH's chares to its top manageme could be interpreted as the first sign of a plan to dispose of its stake altogether. The reality is very different,

according to the five present partners, all but one of whom were previously senior SMH

STOREHOUSE took the turnover

lead from Cable & Wireless on the London Traded Options Mar-ket yesterday, as dealings in gen-

eral recovered stability after the sharp tail in the Hang Seng index in Hong Kong on Monday, in reaction to events in Peking. Overall options market busi-

finance - may in time be extended to a broader layer of executives, leaving Lloyds with just over 75 per cent of the

bank. But, says Mr Jochen Neyna-ber, one of the present part-ners, emphasising SMH's tradi-tional image and "character" as a German private bank should also increase its appeal to the wealthy Germans and

middle-market companies, seen as its most likely clients. The structure of SMH's business, with a heavy concentra-tion on often privately owned middle-market companies, means the link between private banking, fund management and commercial banking is unusually strong, he

explains.
Conducting business with a rivate bank — where the big-gest clients can perhaps deal with one of the partners directly — "is something the customers like."

There is more than vanity at stake, Mr Neynaber says. The feeling of having easy access at a senior level is especially important to the sort of busi-ness people who run the successful small or medium-sized private companies which abound in Germany and which are an important part of SMH's

client base. For such a customer, SMH fits in between the local savings bank used for bread-and-butter business, and a big universal bank.
The link at SMH between

wealthy private clients and their businesses is one Lloyds understands well. Mr Pitman says: "You have to ask where the private wealth comes from. The heads of medium-sized companies are seen as traditional Lloyds territory in the UK. "We've got a real expertise in that."

According to Mr Neynaber, in status-conscious Germany SMH's newly enhanced identity should help generate new corporate business as well as satisfying existing customers. The owner of a successful private company is much more likely to find time for the part-

ner of a private bank - who also carries personal authority - than for even the regional branch manager of a big universal bank. No matter how great the dif-

ference in size between the two banks, things are different when owner speaks to owner, he says.

price lost 89p to 450p. The most heavily traded series in the stock option were, as on Monday, those in the July 460 calls and puts, the

the second 223.

Turnover in the FT-SE 100 Index amounted to 7.317 contracts, consisting of 2,269 calls and 5,048 puts, with the June 2,050 puts alone finding 1,339 contracts, and the June 2150 puts.

1,071. The index itself recovered 18.9 points to 2,107.4, its best of

the day, having touched 2,077.6 in early dealings. Dealings in the index on the London International

cts, and the June 2150 puls

has been boosted to \$1.5bn and even at that level participating also raised to \$300m.

TWO internationally syndicated credits for US securities size, according to Bank of America International, the lead manager, writes Stephen

FT-ACTUARIES SHARE INDICES

banks have been modestly scaled back. The loan, arranged by Citicorp and BAIL, was mainly to back up the issue of commercial paper. A A \$1bn 364-day revolving credit facility for Salomon Inc dential Securities, due to be

signed in London today, was The Salomon loan carried a facility fee of 10 basis points and a margin of 25 basis points. Since the facility would be for less than a year, it carries a zero risk weighting for capital adequacy purposes.

LONDON MARKET STATISTICS

LONDON RECENT ISSUES

territory.

	These indices ar the institute								-		
_	EQUITY GROUPS	Of AC			me 6 1		OF AC	Mon Jun 5	Fri Jun 2	Thu Jun 1	Year ago (agorox)
Fig	& SUB-SECTIONS sures in parentheses show number of stocks per section	Index No.	Day's Change %	Est. Earnings Yield % (Max.)	Gross Div. Yield% (Act at (25%)	Est. P/E Ratio (Net)	xd adj. 1989 to date	Index No.	Index No.	Index No.	Index No.
	CAPITAL GOODS (205)		+0.8 +1.0	19.69 11.88	4.66 4.38	11.53 10.37	13.25 17.91	947.72 1182.33	951.54 1186.87	953.36 1187.70	765.30 991.71
3	Contracting, Construction (37) Electricals (9)	1658.73	+0.1 +1.7	23.86 8.76	4.23 4.06	9.46 14.89	38.24 49.45	1657.09		1670.87	1559,33
5	Electronics (30)	2204.51	+0.2	8.67	3.98	14.98	19.48				
- 61	Mechanical Engineering (54)	. 523.25	+1.5	9.96	3.94	12.32	7.66				
	Metals and Metal Forming (7) Motors (17)		+8.3 +2.5	14.57 11.49	5.46 4.68	7.76 18.22	2.84 6.83	541.47 319.98	544,76 320,39	543.46 321.29	445.25 278.88
	Other Industrial Materials (22)		+1.0	9.68	4.38	12.33	25.11	1537.38			
21	CONSUMER GROUP (187)	1203.18	+0.7	9.16	3.71	13.67		1194.40		1198.63	1073.94
	Brewers and Distillers (22)		+8.2	10.45	3.72	12.63		1296.74			1116.69
25	Food Manufacturing (20)	1968.88	+8.9	9.65 9.81	3.96 3.35	12.98 14.56	15.69 25.59	1051.35 2228.82		1052.46	964.92
57	Health and Household (14)	2208 81	+8.2	6.74	2.69	16.84	21.11	2197.13	2227.72 2216.86	2210.41 2211.85	1964.63 1809.34
29	Health and Household (14)Leisure (33)	1642.21	+1.1	7.53	3.36	16.68	21.82	1624,67			1311.92
31	Packaging & Paper (15)	573.13	+1.4	10.08	4.24	12.55	7.10	565.43	568.73	567.69	489.48
32	Publishing & Printing (19)	3517.33	+Lì	8.84	4.55	14.26		3478.76			
좵	Stores (34) Textiles (15)	795.79	+1.4	11.17 11.33	4.48	11.72	12.47	784.67	785.67	786.46	868.49
	OTHER GROUPS (94)		+0.8	19.35	5.44 4.27	18.63 11.77	13.42 12.26	525.48 1888.47	535.68 1091.21	535.84 1891.85	575.12 878.95
41	Agencies (18)	1374.51	-0.7	6.87	2.59	18.15	14.91	1384.69		1397.33	
42	Chemicals (22)	1262.86	+0.2	11.26	4.68	10.49	26.38	1268.86		1259.38	1922.55
43	Conglomerates (12)	1575.02	+8.9	10.69	5.89	11.02	20.16	1561.75	1571.31		
45	Transport (13) Telephone Networks (2)	2468.51	+4.5	8.37	3.57	15.55	30.81	2455.83			1982.16
48	Miscellaneous (27)	1644 14	+2.5	11.70 16.19	4.68 3.80	11.12 11.14	0.08 22.36	1822.88 1566.49		1886.44 1523.80	942.63 1185.13
	INDUSTRIAL GROUP (486)		+0.8	9.93	3.97	12.45	14.51	1119.49	1126.10	1126.43	951.10
	Oil & Gas (14)		+8.9	10.31	5.50	12.89	51. 6 8	1999.39		2821.46	1844.61
-50	500 SHARE INDEX (500)	7202 72	+0.8		4.16	12.50					***
61	FINANCIAL SPOUD (123)	720 14	+1.0	9.98	5.33	12.50	17.48 16.71	1194,29 722,22	723.76	1202.43 725.70	1826.55 699.65
62	FINANCIAL GROUP (123)	729.48	+1.1	24.78	6.64	5.30	21.71	712.52	712.83	718.75	670.86
65	insurance (Life) (8)	1067.85	+1.1		5.62			1050.69			
661	Insurance (Composite) (7)	549.21	+8.3	- 1	6.02	-	16.75	567.41	569.74	570.80	531.78
6/	Insurance (Brokers) (7) Merchant Banks (11)	988.89	+6.1	7.70	6.38	17.47	27.18	980.15	986.59	996.30	971.88
691	Property (52)	1244 46	-0.1 +1.5	6.39	4.52 2.92	19.95	3.70 13.81	333.77 1274.91	332.89 1288.45	333.57 1285.84	377.32 1224.36
70	Other Financial (30)	363.14	+6.6	10.75	5.86	17.79	6.25	361.12	361.84	364.09	384.27
71	Investment Trusts (71)	1132.17	+0.2		2.88		12.92	1130,40	1142.50	1145.48	876.40
81	Mining Finance (2)	611.75	+0.8	16.14	4.16	16.98	10.45	606.67	611.15	618.01	533.21
91	Overseas Traders (8)	1308.59		11.51	5.67	9,88	34.45		1340,78	1331.35	1129.53
99	ALL-SHARE INDEX (704)	1086.63	+0.8	-	4.36		17.16	1078.15	1084.39	1985.59	948.97
1		index No.	Day's	Day's	Day's	Jas	Jim	Jш	May	May	Year
-	FT-SE 100 SHARE INDEXA		Change +18.9	High (a) 2107.4	Low (b) 2877.6	5 2688.5	2	_1	31	30 2138.6	290

FIX	ED I	NTE	REST	r		L	AVERAGE GROSS REDEMPTION YIELDS	Tue Jun 6	Mon Jun 5	Year ago (approx
PRICE INDICES	Tue Jun 6	Day's change %	Mon Jun 5	xd adj. today	xd adj. 1989 to date	1 2		10.05 9.63	10.03 9.61	8.87 9.18
	117.33 130.93		117.23 130.88		4.91	4 5 6	25 years	9.46 11.11 10.14 9.70	9.44 11.14 10.14 9.69	9.01 9.33 9.39 9.20
3 Over 15 years 4 irredeemables	139.89 161.47	-0.84 +0.82	139.94 161.43	- -	4.62 6.09 6.34	9	High 5 years	11.22 10.36 9.89 9.47	11.23 10.36 9.88 9.47	9.41 9.52 9.25 9.86
Inter-Linker	128.99 134.18		128.93 134.01	-	4.97 1.36	,,	Index-Linked Inflation rate 5% Syrs. Inflation rate 5% Over 5 yrs.	4.01 3.83	4.04 3.84	2.77 3.83
	131.31 131.41		131.03 131.15	-	1.28 1.27	13 14	Inflation rate 10% 5 yrs. Inflation rate 10% Over 5 yrs.	3,27 3,66	3.30 3.67	1.76 3.67
9 Debentures & Luais	113.15 87.97	-0.07 -0.12	113.22 88.08	-	5.14 3.04	16	Delis & 5 years Loans 15 years 25 years	11.91 11.64 11.36	11.80 11.55 11.29	10.23 10.65 10.65
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Rises Falls Same 48 30 28	British Funds									_			

on a total of 36,475 contracts, made up of 22,718 calls and 13,757 puts. The dealings in Storehouse options was handled largely by one major agency broker, which carried out a deal running across Financial Futures exchange offered little pull up or down. Jai Oct Jan Jai Oct Jan Option THE SET THE SET OF THE SET THE Scot. & New 300 23 33 40 10 15 18 (*314) 330 7 19 26 28 32 34 Alld Lyons 420 25 44 51 64 11 14 (*434) 460 7 22 32 29 32 35 500 2 10 17 68 69 70 Shell Tracs, 350 - 63 56 - 4 6 (*406) 390 29 37 46 6 11 13 420 9 17 27 18 20 23 160 · 21 · 26 · 33 · 21 · 5 180 · 7 · 14 · 19 · 10 · 11 290 · 3 · 6 · 10 · 26 · 28 July Sep. Hov. July Sep. 149 18 22 27 6 8 9 160 7 14 18 17 20 22 Brit, Afrenas 1890 21 28 33 2½ 4 9 (*195) 280 7 15 20 9 12 14 220 1½ 7 11 27 28 29 ASDA Grp. (*172) 160 18 21 23 3 6 7 180 7 9 13 13 16 17 43 56 62 25 4 6 19 34 40 8 12 15 6 17 24 27 28 29 90 713½ 17 3 6½ 8 183 3 8½ 11 9 11 12 250 23 34 40 44 8 10 286 10 21 27 13 16 19 300 4 12 19 28 29 31 420 31 46 52 2 8 460 5 18 26 16 28 280 27 38 47 3½ 9 12 300 13 27 36 11 16 18 330 4 13 22 36 38 40 140 12 17½ 23 4 9 160 4½ 10½ 16 16 22 180 1½ 5 11 34 38 80 8½ 11 14½ 2¼ 4½ 6¼ 90 2¼ 6 9¼ 9 9½ 11½ 100 4 2¼ 5 18 18½ 19 650 63 88 115 13 27 32 700 33 58 83 31 43 50 160 17 19 21½ ½ 2½ 4 180 2 5½ 9½ 7 12½ 14 200 ½ 1¼ 3½ 25½ 27 28 GT3233 Grand 330 43 50 - 2½ 8 -360 20 30 41 10 16 20 390 7 17 26 30 33 36 257 19 27 35 31, 9 12 263 4 14 21 18 22 27 309 1 5 11 42 47 50 29 19 27 38 4 11 15 357 4 11 - 16 26 -160 31 39 40 1 2 3 180 12 22 26 2 5 7 200 1 10 15½ 12 14 16 110 10 16 191, 1 3 4 120 31, 9 121, 31, 51, 8 130 1 5 9 12 12 131, 5895 (*119.) THF (*322) 115 155 10 25 30 83 122 25 43 47 53 94 52 67 74 180 23 32 33½ 1½ 3 4½ 200 8½ 17 19 7 8½ 11 441 42 62 - 10 17 -460 - 65 - 30 479 19 42 - 32 35 -70 - 8 10 - 4½ 7 80 - 3½ 5 - 11 14 Vani Reefs (*571) 420 22 42 54 5 15 19 460 4 23 34 31 37 40 500 1½ 10 20 70 70 70 30 38 41 2½ 4½ 6 16 26 25 9 10 11 5 11 14 20 21 22 160 23 27 31 3 4 5 180 8 14 20 7 11 13 200 3 7 11 24 24 25 Prodest! (*179) itaçal (7512) STC (*544.) 250 2½ 12 26 35 100 June 6 Total Contracts 36,475 Galls 22,718 Pais 13,757 FT-SE totax Cath 2,269 Pais 5,048 "Underlying security orie-RTZ, (*499.) 228 26 35 43 249 10 21 28 2 4 4½ 7 9 10

Annual <u>Update</u>

Part 1 was featured on June 6th.



Bank of Montreal

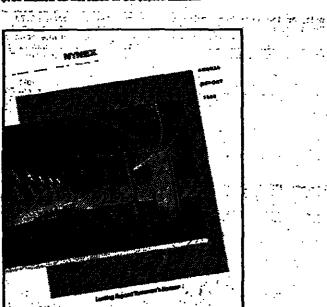
Bank of Montreal is the third largest bank in Canada with assets of \$78.9 billion. In Canada, the Bank distributes its products and services through 1,176 branches located across the country. Internationally, it operates in stateen countries including the key financial markets of New York, London and Tokyo.

Together with its principal subsidiaries Nesbitt, Thomson Inc., a fully integrated Canadian investment dealer, and Harris Bankcorp, Inc. of Chicago, the Bank of Montreal offers a complete range of financial services to personal, commercial and institutional customers in Canada, the United States and abroad.



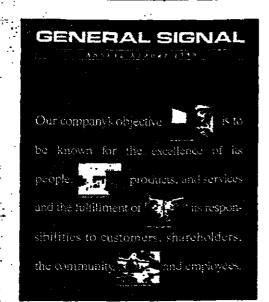
Inco

linco Limited is the non-communist world's leading producer of nickel and a substantial producer of copper, precious metals and cobait. Inco is also the world's largest supplier of wrought and mechanically alloyed micket alloys as well as a seating manuscurer of bades, dasts, impa and other forged and precision-machined components made from special alloy materials. In addition, the Company is a major producer of sulphuric acid and liquid sulphur dioxide, and has other interests in metals, venture capital, mining equipment manufacturing, and engineering and technology sales. In 1988 Inco had net earnings of US \$735 million on net sales of US \$3,263 million.



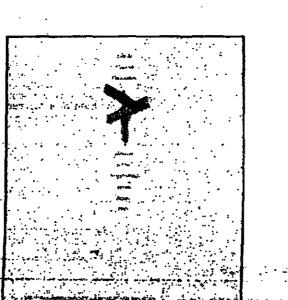
NYNEX

In just five short years, NYNEX has grown from a regional supplier of telecommunications services to a multi-faceted global leader in the information industry with an international family of companies totaling \$25.4 billion in assets. Today, our New York Telephone and New England Telephone subsidiaries provide advanced network services to most of the Northeast and our ten other operating companies have become pioneers in the development of innovative business and information services, office systems, software and publishing services. For the challenges of the information age, the answer is NYNEX.



General Signal

General Signal - an international organization zation with 19,000 employees at General Signal – an international organization with 19,000 employees at 94 manufacturing locations, including facilities in 13 foreign countries is a leading capital equipment manufacturer for the process, electrical transportation, semiconductur, and telecommunications industries. In 1988, foreign sales contributed \$460 million to the company's total revenues of \$1.76 billion; foreign assets were \$200 million. With order backlogs at high levels, General Signal expects very strong financial performance in 1989. First-quarter earnings per share rose by 44 necessity.



Lincoln National Corporation

Lincoln National Corporation (NYSE: LNC) is the nation's seventh largest holding company whose subsidiaries are engaged primarily in insurance and investment services. The Corporation has assets of \$21. on. Through its sub surance, employee markets individual life and health insurance, rein benefits, annuities, property-casualty insurance and investment-related



Pfizer

For Pfiser, innovation is the soundest way to build shareholder value.

Our R&D spending will easily top \$500 million dollars in 1989 – more than twice what we spent in 1984. Our strategy is productive. Each of our businesses now has a portfolio of important new products in development that should drive sales and earnings growth from now themselves the 1000s. through the 1990s.



Georgia-Pacific

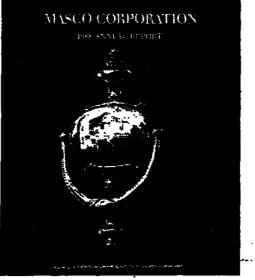
Georgia-Pacific Corporation, one of the world's largest paper and building products companies, posted another record year in 1988. G-P generated \$865 million in cash and invested \$1.6 billion in capital projects, acquisitious and an aggressive stock repurchase program. A key factor in Georgia-Pacific's performance has been the growth of the pulp and paper business which, for the first time, outearned building products for the year.



Hemlo Gold Mines Inc.

Hemlo Gold Mines Inc. owns and operates the high grade Golden Giant Mine in northwestern Ontario, one of the lowest cost gold mines in the world and one of the largest in North America. This mine has 17 years of reserves at the current production rate of 3000 tonnes per day.

Hemlo has embarked on an aggressive program of exploration and investment. It has acquired extensive property positions in northwestern Ontario, western Canada and the United States, and equity positions in several promising junior compa

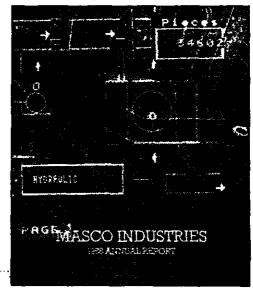


Masco Corporation

"A Unique Consumer Products Growth Company"

Masco Corporation has reported 32 consecutive years of earnings increases. Sales and earnings have increased at average annual

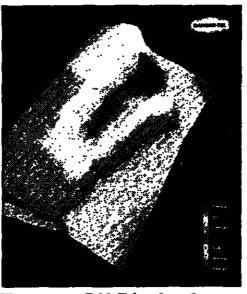
Send for our 1988 Annual Report to learn why, we believe, Masco's earnings will continue to grow at an average annual rate of 15 to 20 t annually over the next five years, with our sales in 1993



Masco Industries

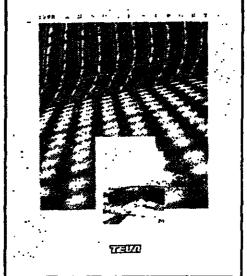
"A Unique Industrial Growth Company" Masco Industries is a technology-based company whose corporate objective is to achieve above-average growth by utilizing our design, ng and manufacturing skills to deve and products for an expanding number of markets.

Our objective is to increase earnings per common share, on average, at least 20-25 percent annually, and thus to establish Masco Industries as a unique industrial growth company.



Ranger Oil Limited

Ranger Oil Limited, an international oil and gas company with proved reserves of 36.2 million barrels of oil and 129.8 million cubic feet of gas, earned \$15.4 (U.S.) million in 1988. Ranger holds interests in producing and exploratory acreage in the North Sea (United Kingdom 57 Blocks; Netherlands - 3 Blocks) and onshore in the United Kingdom, Canada, France and the United States. The shares of the Company are trained on the New York. Towards Parisin and London. Company are traded on the New York, Toronto, Pacific and London Stock Exchanges.



Teva Pharmaceutical Industries, Ltd.

Teva Pharmaceutical Industries, Ltd. (NASDAQ: TEVIY) develops, manufactures and markets human pharmaceuticals, pharmaceutical chemicals, medical disposables, and veterinary products. With growing U.S. presence via a joint venture with W.R. Grace & Co., Teva is the largest supplier of such products to Israel's healthcare markets. Its products are marketed in 50 countries and Teva has manufacturing facilities in Israel, the Netherlands and the U.S. Operating income for 1002 mass 21 necreation 41 necrent sales gain. 1988 rose 81 percent on 41 percent sales gain.

Part 1	was	featured	on]	lune	6th

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Strong all-round

growth made by Great Portland

Costs of converting the Presto chain to the Safeway format have reached peak

Argyll tops £200m as expansion continues

ARGYLL GROUP, the Safeway, Presto and Lo-Cost food retailing chain, reported a 19 per cent rise to £208.5m in pre-tax profits for the year to April 1. before exceptional costs of £29.8m (£43.5m) relating to the programme of converting Presto stores to the Safeway format.

Group sales were 8 per cent higher at £3.5bn, but the previous year included 53 weeks from the original Argyll business and 54 weeks from Safeway, acquired in February

Mr Alistair Grant, chairman, said he was "pleased but not smug" about the figures. The current year had started well.
Argyll has now converted 64
Presto stores to Safeway shops, 57 in the 1988-89 year. A further 38 conversions are planned for the current year and 60 for the year after. Further exceptional costs of £16m

were expected over the next two years, probably £10m this year and £6m next.

Mr Grant said Safeway increased sales by 44 per cent on a comparable basis, with like-for-like volume growth of 2 per cent. Some of the early conversions had now tripled their profit contribution, but the more recent ones were yet to meet the objective of dou-bling profit. Margins from new Safeway stores were running at 70 per cent of those in established stores, while the conversions were achieving margins at 55 per cent of the base

Argyll's Lo-Cost stores are attacking the limited range discount market, and Mr Grant said these were going "from strength to strength". Volume growth was 5 per cent in exist-

Interest receivable totalled



Alistair Grant: pleased but not smug about annual figures

£30.7m (£13.7m) reflecting net cash in the balance sheet of £60m, compared with share-holders funds of £516m. Invest-

the current year, to be financed internally.

Earnings per share before

ment of £300m is planned for

the exceptional costs rose 23 per cent to 16.1p. A recom-mended final dividend of 4.1p gives a total 17 per cent higher

COMMENT

These figures are claimed to represent the year of maxi-mum strain in Argyll's conversion into Safeway, with the group now free to concentrate again on pure retailing. The story is a plausible one: that more than half of the Safeway stores are either brand new or conversions, still working on margins more than a third lower than the mature stores of the original portfolio. As the gap closes there could be room for earnings growth of a quarter this year (post-exception-als), putting the shares at 204p at a slight discount to the sec-tor on a multiple of 12. Despite recent outperformance, this looks remarkably defensive.

NatWest in further US expansion programme By Martin Dickson

NATIONAL WESTMINSTER Bank, which has built up sub-stantial operations in the US states of New York and New Jersey, is now looking to expand into Pesnsylvania by acquiring a bank there with assets of over \$2bn (£1.8bn).

Mr William Knowles, chair-

man of National Westminster Bancorp, the US banking sub-sidiary of the British clearer, said in London yesterday that the bank was not currently in negotiations with any Pennsylvanian group. But it was looking at the possibility of acquiring a bank in a part of the state close to its existing operations in New Jersey. About a dozen banks could fit its requirements.

He disclosed that NatWest had approached one Pennsylvanian bank some time ago but had been rebuffed.

The gradual relaxation of US legislative barriers to internegotiations with any Pennsyl-

legislative barriers to inter-state banking means NatWest could operate in Pennsylvania from March next year, though Mr Knowles said it "does not feel compelled to be there on opening day." Since the late 1970s NatWest has been pursuing a strategy of gradual expansion through the north eastern US. Its most recent deal was the proposed \$282m purchase of Ultra Bancorporation in New Jersey last Febru-ary. It expects this to clear the regulatory hurdles by about

The bank is also interested in expanding into a fourth north east state, Connecticut, though no date has yet been set there for a relaxation of banking regulations.

Mr John Tugwell, chief exec-

utive of international business at NatWest in Loudon, said the bank might ultimately double its US assets from the current \$20bn. That might happen over the next five years, although no timetable had

By Paul Cheeseright, Property Correspondent GREAT PORTLAND Estates yesterday joined the list of property investment and devel-opment groups showing a strong increase in net asset values. The underlying value of its properties rose 34 per cent over its last financial year and its net asset value per share advanced 40 per cent to In response to an increase

that was higher than the market had been expecting, the shares rose 5p to 369p as property share performance broke out of its recent sluggishness. The group is paying a final dividend of 6p for the year to

last March, bringing total payments for 1988-89 to 9p, compared with 8.1p for 1987-88. Shareholders are also being offered a one-for-five scrip issue and, in a gesture of confidence, the board set out its intention to maintain the dividend at 9p on the enlarged cap-

However, Mr Richard Peskin, the chairman, noted that net asset value had more than doubled in two years. "It will be impossible to repeat this per-formance but a steady level of asset growth is anticipated,"

Pre-tax profits for the 12 months to March were £39.36m compared with £24.73m the previous year. Earnings per share came to 12p (10.6p).

The general buoyancy of the property market has come through in the amount of rents received. This rose last year to £35.59m from £28.42m the year

before. With developments coming through to fruition and coming infolgn to indicat and a series of leases coming up for rent reviews. Great Portland expects during the current year to receive rents of about £48m, nearly double that received in 1986-87.

Great Portland has sought to secure a more appressive atti.

assume a more aggressive atti-tude in the market place not only through the working of its own portfolio but also through the acquisition of 50 per cent of Bride Hall, the development and trading company. This investment gave last year a share in the Bride Hall profit of £3.01m against £1.21m in

Gearing remains at a modest 20 per cent and all of Great Portland's debt is fixed at interest rates of less than 10

• COMMENT

Great Portland has been drawing benefit from the huge rise of property values especially in the West End, Holborn and Covent Garden districts of London where it has 59 per cent of its portfolio. Despite the likeli-hood of a slowdown, acknowledged by the company, there is still enough drive in the mar-ket to make certain asset values rise again this year, probably to about 555p a share. That puts the current price ou a discount of 33.5 per cent, not abnormal for a property invest-ment company under current conditions but adding emphasis to the notion that the sector is looking undervalued.

Premier up on Lasmo proceeds

By John Ridding

SHARPLY LOWER oil prices prompted a fall in pre-tax profits from £14.33m to £8.55m at Premier Consolidated Oilfields, the independent oil company, for the year to March 31. Earnings per share dropped from 2.86p to 1.69p.

However, a gain of £5.12m relating to the disposal of the company's holding in London and Scottish Marine Oil, a fellow oil independent, boosted net attributable profits to £11.67m (£14.7m).

Mr Roland Shaw, chairman, said the results were satisfactory despite an average sales price of £8.39 per barrel, 19.3 per cent lower than the previous year. This was reflected in turnover of £21.4m (£26.3m).

In the first five months of 1989 the price had improved to give an average of £10.60.

Premier said its oil find in the Gulf of Thailand, announced in December, "had the potential to be one of its biggest fields" and that it "liked what it had seen so far." It is undertaking a seis-mic survey and plans to have completed four to six appraisal wells by June 1990.

O COMMENT

Premier's extraordinary boost from Lasmo mirrors the 1987-88 Tricentrol windfall. This year is unlikely to see a et performance an although stronger prices for oil and the dollar, and expan-ded production at Wytch Farm, should provide a stimu-lus, net income is unlikely to exceed £9m. For Premier's investors, however, earnings numbers are very much a sideshow. The main event is going on in the Far East, where the 2.3m acre Thai field has the potential to transform reserves. Such eastern promise has sent the shares climbing, from around 58p in December to yesterday's 99½p. Also important is Premier's relatively extens financial base tively strong financial base. The shares, however, are unlikely to show much further activity until results from Thailand start to emerge at the beginning of next year. But they should remain underpinned by Burmah's 29.9 per cent stake. However, Burmah's apparent reluctance to return to direct involvement in exploration means that there is currently little reason to suspect hostile intent.

De La Rue problems worse than expected

By David Waller

DE LA RUE, the security printing and electronics com-pany yesterday followed up its February profits warning with a set of pre-tax profits which it acknowledged to be verging on

the catastrophic.
In the year to March 31, pre-tax profits fell from a record 562.42m to £26.3m, on turnover up from £483.66m to £528.55m. An extremely high tax bill, combined with a hefty interest bill, helped drive earnings down from 31.1p to just 4.9p per share.

The company maintained that the problems at its Prin-trak and Crosfield subsidiaries, although worse than expected when they were first publicised in February, had been contained and the future the group was

As a gesture of confidence, it is proposed that the final divi-dend be maintained at 10p and

ANGLIA SECURE Homes,

Britain's second largest builder of sheltered housing, yesterday said that sales of retirement homes had fallen by about a

third this year compared with the first five months of

The company announced pre-tax profits of £2.76m for the

six months to end-March, against £2.41m last time.
Comparisons were restated to take account of the purchase of Alfred McAlpine's retire-

Mr Peter Edmondson, Anglia

chairman, said the combined

business had sold 187 homes during the first six months of

the financial year compared

with 301 in the first half of last

He said the market remained

very difficult. Anglia would be pressed to match last year's

combined sales of just over 700 units and he did not expect the

housing market to show any

significant recovery until the middle of next year.

By Andrew Taylor, Construction Correspondent

be paid out of reserves, making an unchanged 13.25p for the

Despite a 15 per cent rise in Crosfield's sales last year, the profits contribution from this lectronic equipment manufacturer dropped from £21.1m to £5.2m. Mr John White said that four months ago he expected the business to make £11m to £12m, but that conditions had

since detiorated . At Printrak, a manufacturer of automated fingerprint identification systems, the loss was £14.7m against a small, undisclosed profit in the previous year. At the time of the fore-cast, a loss of £10m was expec-

Trading problems were not confined to these two subsidiaries. Despite good performances from the core banknote printing and payment sys-tem business, profits from security products as a whole

Sales setback for Anglia Homes

The company had taken steps to boost sales by offering part exchange deals, shared

equity plans and other incen-

about 21m in overheads. It is also looking at possibles joint venture to break into new mar-kets in the UK and

Turnover fell to £15.26m (£17.81m). Earnings per share were slightly lower at 8.6p (8.7p).

Anglia sells its homes as far

north as Leicester and as far west as Exeter. It therefore has

had the very worst of housing

market recession. The com-

pany argues with some justifi-

cation that there remains a big market for its products. People

over 65 are living longer,

remain more active and are

mostly wealthier than their parents were. Anglia buyers

maintained at 1.25p.

O COMMENT

It axed about 52 jobs saving

were flat because of difficulties at Remsdaq, a security systems manufacturer.

With borrowings up from £53.3m to £107.6m over the year, the interest charge climbed from £5.77m to £8.64m. The share of related company profits fell, from £8.58m to 25.31m, while the tax bill fell only slightly, from £18.38m to £17.65m. The company did not generate enough UK profits against which to write off its accumulated ACT.

De La Rue also announced yesterday that it had paid £10.7m to acquire a 50.03 per cent stake in Garny, a West German security and payments systems manufacturer.

Despite significantly under-shooting the £35m forecasts made at the time of the profits warning in February, De La Rue's shares actually gained

generally will have few mort-gage worries and therefore should be insulated from the

effects of rising interest rates. The problem has been that

elderly ladies - the average age of Anglia's customers is 73

and most of them are women

- face the same difficulty in

selling their existing homes as everybody else in southern England. According to Anglia,

cancellations, at one stage rep-

resenting about 40 per cent of

ning at just over 30 per cent, The company should be among

the first housebuilders to bene-

fit from an upturn but this is

unlikely to occur this year. On

pre-tax profits of just under £8.5m, Anglia is on a prospec-

tive p/e of about 8 which looks

a little expensive. The shares,

however, are unlikely to slip

below the psychological 200p

ens or interest rates rise even

mark unless sentiment wors-

yesterday, from 310p to 315p.
This apparently perverse reaction to such an appalling set of figures from a major company is easily explained by the presence of de Benedetti and Maxwell Towether there well. Together, they own more than 20 per cent of the shares, and despite their protestations of friendliness, can hardly be deemed reliable, long-term sharerholders under the circumstances in a nutrical. cumstances. In a nutshell, De la Rue is a sitting duck for a predator wishing to divide the group neatly into two, the security printing side on the one hand, and the clutch of hi-tech, supposedly high-growth electronics companies on the other. The share price is way out of line with fundamenway but the win inhammar-tals. Assuming a pre-tax profit of £45m in the current year, the shares sit on a prospective multiple of 17, which is 50 per cent above the market

Reedpack beats buy-out targets with £28m profits

By Maggle Urry

REEDPACK, the office supplies, paper and packaging group formed by a management buy-out from Reed International, reported its first amual results yesterday. The figures covered an eight month period to April 2, showing operating profits of £50.1m, an interest charge of £32 1m and interest charge of £32.1m and pre-tax profits of £28m.

Mr Peter Williams, chief executive, said the figures heat the targets set with the institutions which backed the buy-out last year. The company would be ready to float by the year end, but would wait for market conditions to be right before doing so, he said. The original

flotation target was in 1991. On a pro-forma comparable basis, turnover for the year to April 2 rose 11 per cent to £777.2m and pre-interest and tax profits were 27 per cent ahead at £70.5m. For the eight months earnings per share were 84.5p.

The buy-out for 2608.6m meant the company took on a high level of debt. At the financial year end net debt was \$405.7m, almost unchanged from the initial debt position, deputte covital expenditure of

despite capital expenditure of £48.8m in the eight month period, Mr Williams said. Cur rent year capital expenditure is expected to be £70m, financed internally.

Mr Williams said the high

down in economic activity was now affecting the business, particularly on the packaging side. However, interest rates on 95 per cent of the group's debt had been hedged for the During the past year the office supplies division was the best performer increasing trad-

ing profits by 45.5 per cent to £20.8m, on a comparable basis. Mr Williams said all parts of the business were buoyant and

margins improved.

The paper division raised trading profits by 35 per cent to £32.4m, helped by the new number six paper machine at the Aylesford site in Kent

Packaging profits were slightly lower at £28.6m (£28.9m). Increased capacity in the market allied to a slowdown in volume growth meant it was difficult to pass on cost increases, Mr Williams said, and margins fell. However, it is the division with the greatest potential to improve cost effec-tiveness, he added.

Sir Christopher Benson chairman, said the group had 1,000 acres of freehold land surplus to the group's needs, val-ued in the balance sheet at

Peter Black abandons bid for Lambert Howarth

By John Thornhill

PETER BLACK, the consumer goods manufacturer and dis-tributor, yesterday abandoned its takeover bid for Lambert Howarth after receiving full acceptances equivalent to only 0.63 per cent of the footware and luggage group's share capi-

However, the offer ended in some confusion yesterday as the two sides differed over

whether an increased offer had been proposed in talks held over the last few days.

Black said it had been prepared to increase its offer to 215p per share on condition that this offer was approved by the Lambert board. the Lambert board. Mr Stephen Lister, finance director, said his company was

prepared to pay this higher price for the benefits to be derived from the goodwill of Lambert's management.
But Mr Martin Jourdan,
Lambert chairman, said
Black's possible increased offer
had only represented a basis
for discussion and was never

expressed as a firm offer.

"If Peter Black were serious about 215p why did they not offer it to shareholders?" he

The original offer, launched on April 10, valued Lambert at about 29.1m, or 160p per share. On yesterday's announce-ment, Lambert's share price fell sharply to close 39p lower at 177p. Peter Black shares firmed 2p to 143p.

Rowlinson doubled at £3.11m

Rowlinson Securities yesterday in the previous year. bled to £3.11m in the 12 months to the end of March 1989.

The Cheshire-based property and construction group achieved the increase on turnover of £13.37m, against £6.21m (£527,000), earnings per 10p share expanded to 16.94p (8.23p) and the proposed final dividend is lifted to 1.11p for a total for the year up from 0.9p to 1.35p.

DIVIDENDS ANNOUNCED

	Current payment	Date of payment	Corres - ponding dividend	Total for year	Total last year
Allied Colloidsfin	2	Aug 26	1.65	2.65	2.3
Anglia HomesInt		July 28	1.25	-	3.5
Archimedes invint		-	5.8	-	14,55
Argyll Groupfin	4.1	Aug 29	3.5	6.2	5.3
Atkins (Hosiery)fin	7.7	July 28	7	11	10
Body Shop Initfin	1.125	_	0.9*	3.375 <u>t</u>	1.5
Brooke Tool Engint	0.725	July 27	0.7		1.8
Caraconfin	7.5	Aug 11	5.5	11†	8
Channel Express§fin	1.3	Aug 14	-	1.3	-
Cranbrook Elec §int	0.5	July 14	0.5	-	1.25
Cupid •fin	22	_	_	2,2	-
De la Ruefin	10	July 28	10	13.25	13.25
Gt Portland Estsfin	6	July 21	5.35	9	8.1
Marshallsfin	6.5	-	5.25	8.75	7.25
Merston Thompsonfin	2.42	-	2.05	3.36	29
Monks & Crane §fin	2.53	Aug 2	2	3.83	3.2
Norcresfin	11	Aug 14	10.4	16	14.4
Powell Duffrynfin	14.5	Aug 7	13.25	20.5	18.5
Relation Trustint	1	-	-		
Rowlinson Secsfin	1.11	-	0.68	1.35	0.9
Unitockfin	1.6	-	1.2	2.6	2.2
York Trust §fin	1.7	July 27	1.55	27	2

Dividends shown pence per share net except where otherwise stated. "Equivalent after allowing for scrip issue, fOn capital increased by rights and/or acquisition issues. §USM stock, §§Unquoted stock, \$fhird market. For 17 months.

Marston pumps profits up by 15% to near £15m

MARSTON, Thompson and Evershed, the Burton-on-Trent brewer of traditional bitter, reported a 15.3 per cent rise in pre-tax profits to £14.9m in the year to March 25, writes Lisa Wood. Turnover rose 8.1 per cent to £79.5m.
Earnings per share rose by 15.9 per cent to 11.29p. A final

dividend of 2.42p will raise the total payment from to 2.9p to

Mr Michael Hurdle, chair-man, said there had been a marked improvement in the second half to bring sales level with those in 1987-88. Substantial progress had been made in two key areas:

the deal with Whitbread for national distribution of Pedigree ale, Marston's best known cask-conditioned bitter, and development of a new catering concept, Tavern Table

As part of the Whithread deal, Marston agreed to accel-erate the introduction of Hel-neken and Stella Artois lagers

into its pubs. It has stopped production of its own Marcher ger. Marston said it had become increasingly difficult and expensive to compete with heavily supported national

ager brands.

Analysts are forecasting about £16.7m for 1989-90, which has 53 trading weeks, for a pro-spective p/e of 16.4.

COATS VIYELLA

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BOARD MEETINGS

TODAY

SHAND UNIT TRUST MORTQAGE With effect from the 1st June 1988, the

Carriord Engineering, Greenwick, Neotronics, FCO.

This notice is issued in compliance with the requirements of the Council of The International Stock Exchange of the United Kingdom and the Republic of Ireland Limited ("The Stock Exchange"). It does not constitute an offer or invitation to the public to subscribe for or to purchase shares. Application has been made to the Council of The Stock Exchange for the grant of permission to deal in the whole of the ordinary share capital of James Smith Estates PLC, Issued and to be issued, in the Unlisted Securities Market. It is emphasised that no application has been made for these shares to be admitted to listing. Dealings are expected to begin on 12th June, 1989.

JAMES SMITH ESTATES PLC (Incorporated in England under the Companies Acts 1862 to 1898, Registered No. 62605)

Placing by Sheppards of 3,750,000 Ordinary shares of 25p each at 105p per share payable in full on acceptance

Share Capital

Authorised

£5,750,000

Ordinary shares of 25p each

Issued and to be issued fully paid £3,850,000

The principal business of James Smith Estates PLC is investment in commercial, residential and industrial property in London and the South East of England. Full particulars of the company are available in the Extel Unlisted Securities Market Service and copies may be obtained during normal business hours on any weekday (Saturdays and public holidays excepted) up to and including 21st June, 1989 from

No. 1 London Bridge, London, SE19QU

P.O. Box 199, Cottons Centre, Hays Lane, London, SE12QT

7th June, 1989

Citicorp Scrimgeour Vickers Limited,

UK COMPANY NEWS

BUILDING PRODUCTS COMPANIES REPORT CONTRASTING FORTUNES

Slimmer Norcros edges ahead to £67m

A RADICAL programme of disposals enabled Norcros, the building products, print and packaging and property devel-opment group, to nudge pre-tax profits ahead by 2 per cent to \$56.89m in the year to March 31

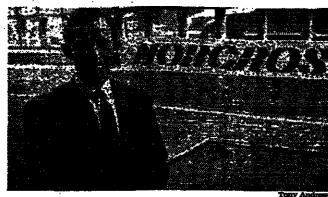
The improvement from 285.27m reflected a decline in interest payments to £2.97m (£6.18m) as Norcros raised a net 234.3m from disposals of businesses which had accounted for more than half of 1987-88 turnover.

By the year end, gearing had fallen from 30 per cent to 3 per

Despite a lower tax charge, growth in earnings per share lagged behind the rise in profits, advancing only 1.5 per cent to 38.5p (33p).

Nevertheless, a proposed final dividend of 11p will raise the total by 11 per cent to 16p (14 45)

With operating profits falling to £69.86m (£71.45m) on reduced turnover of £544.71m (2718 12m), the margin at this level improved from 9.9 per cent to 10.8 per cent. Norcros said profits from continuing



Michael Doherty: new chief executive of Norcros.

turnover of £414.2m, a margin of 15.4 per cent.

During the year, Norcros sold motor dealerships, Dow-Mac Concrete, Butterley Engineering, Bulk Carriers and Multitape. It swapped UBM builders' merchants for Meyer International's Crosby manufacturing business and £55m cash. The disposals led to an extraordinary credit of £8.59m £65.3m debit).

businesses reached 264m on a four-month contribution turnover of \$414.2m, a margin from Crosby, accounted for operating profits of £17.56m (£10.67m); ceramics for £21.83m (£19.57m), print and packaging for £15.21m (£15.63m) and prop-erty for £13.85m

erty for £13.85m (£8.84m). Crittall Warmlife, the conservatory and double giazing substidiary, fell into loss because of re-organisation costs and a weak market in the final months of the year.

Currency fluctuations

A slimmer Norcros looks well
equipped to cope with the

fraught days ahead. The dis-posals have not only elimi-nated businesses which were sliding rapidly towards break even but also allowed Mr Michael Doherty, the new chief executive, to display a manage-ment coherence which has not been seen at Norcros for some time. The shares closed 2p higher at 312p. Problems remain, of course. Not least is how to make up for the 55.9m in sale-and-leaseback profit which is unlikely to be matched this year. Moreover, the challenge of high interest rates cannot be underestimated even if commercial mated, even if commercial demand has not yet been affected. Pre-tax forecasts reduced translated profits from print and packaging by £1.5m. The division also suffered from range from 559m to a shade over 572m. At the top end, the prospective p/e is less than 9 and the prospective yield, assuming dividend growth in line with earnings, is 75 per cent. An additional attraction for small investors is a new discount scheme which proits main US rival's aggressive pricing. Ceramics, on the other hand, benefited from an accounting change which increased the reported contribution from H&R Johnson India by about discount scheme which pro-vides a 10 per cent rebate on the retail price of most Norcros products. For the moment at least, there is no minimum

Organic growth helps boost Caradon 63% to £34m

CARADON, the Surrey-based building products company, yesterday announced a 63 per cent rise from £20.7m to £33.8m in pre-lax profits for the year Turnover increased 71 per

cent from £170.4m to £290.6. Excluding acquisitions, there was organic growth of 33 per cent in operating profits, achieved by increased volumes and margin improvements in all the divisions.

dons

12 1 57.7

NCED

Everest, bought a year ago for £31.9m, contributed £5m in operating profits for the 10

month period. Mr Peter Jan-sen, chief executive, said that high interest rates had led to a difficult market, with a severe fell in selections the story of fall in sales since the start of

fall in sales since the start of the year.

Since the purchase, three of Everest's eight factories had been closed and the number of full time employees had been cut from 1,500 to 1,050. This gave rise to a £8.9m provision for liabilities and charges. Car-adon also strengthened Ever-est's management, improved its product range and its mar-keting effort, said Mr Jansen.

Operating profits of £34.1m (£21.9m) comprised Caradon Plastic Building Products £10.2m (£7.7m); Caradon Mira £8.2m (£6.1m); Caradon Twy-fords £7m (£5m); Caradon Plastics 3.7m (£3.1m) and Caradon

Earnings per 5p share increased by 39 per cent to 37p (26.6p). A recommended final dividend of 7.5p makes a total of 11p (8p), an increase of 38

O COMMENT

med during the boom years fol-lowing its flotation in mid-1987, has given way in some quarhas given way in some quarters to a degree of scepticism. To some eyes, the recent downturn in sales and the large reorganisation costs make the Everest deal look rather less well-priced and well-timed than it did a year ago. Caradon's many supporters, however, can point to the expected benefits of its bold and rapid decidin to cut costs. improve action to cut costs, improve products and boost the market-Caradon's popularity, undiming effort of Everest, Elsewhere
in its business, having spotted

O COMMENT

the market trend before many of the pundits, it has investe in efficiency savings which should keep profits growth coming through despite a downturn in the market. Moreover, the bulk of its products go into the repair and maintenance market which should be relatively insulated from the effects of higher interest rates. Overall, it is expected to make pre-tax profits of about \$40m. which put the shares, down 1p to 340p yesterday, on a fairly valued p/e of 8.

Hazlewood purchase

Hazlewood Foods, the food

manufacturing group, has acquired the assets and busi-ness of Heidrich Confiserie, a West German chocolate manu-

facturer, for DM144m (24.5m) in cash. The company is not revealing Heidrich's profits or

sales. The purchase was made via Hazlewood's West German

subsidiary Weseke Holdings.

BPB moves to bolster position in France

BPB INDUSTRIES, Europe's BPE INDUSTRIES, Europe's largest plasterboard manaufacturer, has moved to bolister its position as market leader in France with the acquisition of Henry et Cle, a loss making French manufacturer of polystyrene insulation products, for France (Cle, 1988).

for FF250m (223.6m).

The cash purchase — which still requires the approval of the French Treasury — will give BPB an additional six regulation sites in France and take its share of the French thermal laminate market from 30-40 per cent to approxi-

30-40 per cent to approximately 50 per cent.

This market has recently been suffering from overcapacity and the price war which resulted constrained BFB's profits growth over the last financial year; Henry suffered from the same problems and as a result made a loss last year.

During the current year, Henry's turnover is expected to be in the region of FF370m. Mr Brian Hogben, BPB's finance director, said that a vigorous rationalisation pro-gramme would be pursued to bring the company back into

profit.

Combining Henry's operations with those of Placoplaire, BPB's existing subsidiary in this field, would create a grouping better able to cope with the problems of the industry, Mr Hoghen argued.

The City was disappointed in December when BPB announced a 14 per cent increase in 1987-88 pre-tax profits to £104.1m, mainly because of overcapacity in continental Europe. Yesterday, its shares added 1½p to 237½p.

On a separate development, Marling Industries has taken a

• In a separate development,
Marling Industries has taken a
25 per cent stake in Mecaroute, a company based near Paris which distributes a number of Marling products, namely geo-textiles and build-ing materials. The investment totals FFR 5.58m (£531,000), and the French company is budgeted to have sales of FFr 120m in 1989.

Brooke Tool lifts profits to £0.82m

Brooke Tool Engineering (Holdings), the industrial cutting tools manufacturer, lifted pre-tax profits from £755,000 to £820,000 in the six months to end-March 1989.

Mr Fane Vernon, chairman, said: "Order books are appreciably higher than at the financial year end and reflect the general buoyancy both in

Armitage boosts Marshalls

By Philip Coggan

MARSHALLS, formerly
Marshalls (Halifax), the concrete products and brick company, yesterday revealed a 91 per cent increase in pre-tax profits to 255.03m in the year to March 31 thanks partly to the acquisition of the George Armitage brickmaking group.

Marshalls chairman, said that Armitage had not, as yet, been affected by the downturn in the housing market as about half its output was engineering bricks.

Mr Marshall said that Marshall said that Marshall said that marguring subsidiary improved

group.
Fully diluted earnings per share were 33 per cent laigher at 27.070 (20.375). The proposed final dividend is 6.55 (5.255) making a total of 8.755 compared with 7.25p. A one-for-one scrip issue is also

Operating profits were \$25.98m (£18.98m) on turnover of £152.3m (£105.2m). After

\$6.8m in the nine months it well.

Mr Marshall said that Marshalls Mono, the concrete and quarrying subsidiary improved its margins and increased profits by 38 per cent to £17.1m.: The business increased its share of the concrete flag and kerb market and maintained its 40 per cent share of the fast-growing concrete block paying market.

The engineering companies increased profits by 36 per cent with the Halifax Tool company, which sells drilling (E810.000), pre-tax profits were machines and equipment that puts the shares on a pro-feed of the contributed forming particularly fully valued for the short

Norcros

140

120

Share orice relative to the FT--A All-Share Index

Marshalls' profits record since 1982, when it made just 22.86m, is unimpeachable and these is unimpeachable and these figures were once again at the top end of expectations, pushing the shares up 6p to 274p. As yet, the company has proved immune from the travalls of the housing sector and with its strong position in concrete block paving and its northern bias, it may remain so. However other commanies so. However other companies are expanding their capacity in concrete blocks and Marshalls' margins may yet come under pressure. A slowdown in the rate of growth looks inevitable but the company should still

year, they are disappointed. The public seems quite capable of eating its beefourger with one hand and rubbing its skin with non-animal tested lotion

with the other. Although imita-

shop may benefit from being clearly identified as the leader of the environmental pack. And, a lesser-known but

And, a lesser-known but equally important fact, it is extremely well managed. Investment in staff training and product development continues at a healthy rate and it has yet to be tripped up in its overseas expansion. If pre-tax profits reach £17.5m this year, the shares at 596p are on a prospective p/e of 25. That looks daunting but next year, the US company will move into profit and start to benefit from

profit and start to benefit from its tax losses. The cynics may

Body Shop higher at £15.24m

ary 29 1988.

The company said that
"despite the general nervousness about levels of retail tradresults to February 1990 to reflect our moments

Turnover for the 17 months was £78.01m and for the unaudited 12-month period 255.4m. Earnings per share over the same periods were 20.4p and

By Vanessa Houlder

to start on June 12.

BODY SHOP International, the cosmetics retailer, yesterday reported pre-tax profits of £15.24m in the 17 months to February 28, following a change in year end.

For comparison purposes, Body Shop also produced unaudited figures for the 12 months to February 28. Pre-tax profits in that period were £11.23m, compared with £7.2m in the previous 12 months to February 29 1988.

year.
In the US, three shops had been opened by the end of February and five more by the end of May. A further seven shops are likely to be opened this financial year. Body Shop expects the US operation to be profitable in the year to February 1991.

O COMMENT Every year, the cynics wait for Body Shop to trip over its ideo-logically pure feet and every

have to wait a bit longer for the shares to go the way of Next and Storehouse. Plastiseal heads for the USM executive

Plastiseal, Coventry-based inaker and installar of windows and doors, is joining the Unlisted Securities Market in a placing which values if at \$7.07m. Dealings are expected to start on June 12 imm products in the north of England. Plastiscal makes windows and doors, principally from uPVC, for Property Services Agency clients, local authori-ties, contractors and trade customers. Around 95 per cent of its business is concerned with the repair and maintenance

Smith Keen Cutler is placing 2.2m shares at 90p each, which will raise £353,000. The com-pany is considering establish-Pre-tax profits for the year ended January 31 were £1.01m (£276,000) on turnover of £9.84m (£4.98m). ing a manufacturing site in Scotland and entering the mar-ket for architectural alumin-

Cupid tops forecast with £0.44m

Capid, manufacturer of bridal
wear and nursery products,
made a pre-tax profit of
fallo,500 in the year ended
March 3i compared with not
March 3i compared with not
March 3i compared with not
March 3i compared with first the general buoyancy both in the home and export markets." The group was committed to continued growth through the development of new products and markets coupled with strategic acquisitions, he added.

Turnover was £10.69m (£2.65m). Earnings rese to 1.7p (1.6p) and the interim dividend is 6.725p (9.7p).

Capid, manufacturer of bridal september when the company joined the Third Market.

In February the company acquired Jean Elizabeth and Eston, on the year ended the markets and markets with £301,000 forecast and september when the company in fine the Third Market.

In February the company acquired Jean Elizabeth and Eston, on the growth strategic acquisition to the year ended the Third Market.

In February the company acquired Jean Elizabeth and Eston, on the year saw a rise in turn-tower was £10.69m (£2.59m) and an improvement in earnings to the company's relatively infined the Third Market.

In February the company acquired Jean Elizabeth and Eston, on opened its first Continental distribution branch, in Paris. Directors said the company's relatively improvement in earnings to the first coupled with strategic acquisition acquired Jean Elizabeth and Eston, on opened its first coupled with strategic acquisition acquired Jean Elizabeth and Eston, on opened its first coupled with strategic acquisition acquired Jean Elizabeth and Eston, on opened its first coupled with strategic acquisition provided a base for organic and acquisition growth.

Bibby's chief decides to quit

By Clare Pearson Mr Peter Wood is giving up the job of chief executive at J. Bibby & Sons, the agricultural and industrial conglomerate which is 86.5 per cent owned by Barlow Rand of South

All divisional managing directors will from now on report directly to Mr Richard Mansell-Jones, who took over as executive chairman in January last war Ribby said the ary last year. Ribby said the departure of Mr Wood, 56, who has been with the company for some 30 years, was by mutual

Bibby last month reported disappointing pre-tax profits for the six months to April 1 of £15.9m (£15m). It warned a slow-down in the US and UK economies would affect its science products and materials handling divisions, which offset a poor performance by paper interests in the first half.

POWELL DUFFRYN

"A considerable achievement"

SUMMARY OF RESULTS

1987/8 £33.9m £33.0m Profit before tax 34.6p38.6p Earnings per share 18.5p

20.5p

The Chairman, David Hubbard, makes the following points in his annual statement:

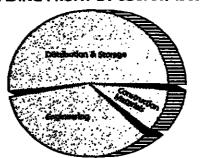
In a year when our Fuel Distribution operations were adversely affected by the mild winter, increased profits highlight the advantages of our spread of activities.

Dividends per share

Outstanding contributions came from the Shipping fleet and from the accelerating sales of our concrete bricks. Our Engineering activities and Bulk Liquid Storage facilities both showed improved profits.

Capital investment continues to form the spearhead of growth: this year it has risen to a new high of \$58 million. The interesting spread of our businesses and the exciting potential of current developments give confidence that Powell Duffryn will continue to prosper.

TRADING PROFIT BY SECTOR 1989





Powell Duffryn House, London Road, Bracknell, Berkshire RG12 2AQ. DISTRIBUTION AND STORAGE | ENGINEERING | CONSTRUCTION MATERIALS

This announcement appears as a matter of record only.



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Co-Lead Managers: Credit Lyonnais The First National Bank of Chicago Mellon Bank, N.A. Deutsche Bank AG Banque Bruxelles Lambert S.A. Barclays Bank PLC The Dai-Ichi Kangyo Bank, Limited Generale Bank S.A./N.V. Gulf international Bank B.S.C. Midland Montagu Morgan Guaranty Trust Company of New York NCNB Texas National Bank National Westminster Bank PLC

Saudi American Bank,

Rabobank Nederland

Co-Managers: Arab Bank Limited Citibank N.A. The Sumitomo Bank, Limited

Facility Agent: The Chase Manhattan Bank, N.A.



Fuel side checks Powell Duffryn

PRE-TAX profits of Powell Duffryn, the industrial group. edged ahead from £33m to £33.93m in the year to end-March as the second mild winter in a row hit its dominant fuel distribution activities.

Trading profits from fuel distribution, which went into the winter months with margins already impared by price-cutting initiated during the previous year, fell by about 36 per cent from £13.55m to £8.55m on turnover of £349.3m (£367.1m).

Release of some deferred tax. after a review of capital investment plans, nevertheless meant earnings per share moved ahead to 38.6p (34.6p). The final dividend is lifted to 14.5p (13.25p) making 20.5p

(18.5p) for the year. There were exceptional credits totalling £710,000 (£409,000). comprising profits on sale of trade investments. In addition, property disposals, chiefly in the fuel distribution area, put in £1.81m (£3.47m) to trading profits of £38.82m (£37.85m). Mr David Hubbard, chair-

man, said there was no question of Powell Duffryn pulling out of fuel distribution in the UK, where it was, on the contrary, investing to enhance market share. The company has, however, recently sold its 50 per cent owned French distribution arm to its partner, Elf

France.
Shipping put in a strong performance, providing £6.46m (£3.9m) to the trading profit line. This was as all the fleet began to benefit from the firmer freight rates of the last two years, and as cost reduc-tions due to a reflagging in the Isle of Man last September worked through.

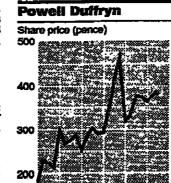
The international bulk liquid storage operations continued the trend of recent years, with the Australia and South Afri-can businesses doing well but held back by the US and UK. This put in £4.97m (£4.48m). Construction materials businesses benefited from strong demand for concrete bricks,

where capacity has also been increased. This division pro-

vided £4.1m (£3.29m). Engineering rose to £13.76m (£11.82m). The dominant UK operations pushed ahead although one US company, earmarked for sale,

• COMMENT

Powell Duffryn has a public image problem in that none of its activities inspire excitement, and fuel distribution looks more than ever dull given the current obsession with global warming. At the same time, economic slowdown in the US and UK can only mean lower growth rates in construction materials and engineering, though it is note-worthy that its exposure to the housing market in the former division is pretty low, and in the latter it is pursuing the niche strategy of concentrating on specialised vehicles for road and rail. Assuming a rather colder winter, and another good performance from ship-ping, followers are looking for



pre-tax profits of around £38m in the current year, but much slower earnings per share growth. This puts the shares on a prospective p/e of just over 9. However, their saving grace is as always the hand-some yield, which pears 8 per cent on a prospective basis.

1984 85 86 87 88 89

Enlarged York Trust turns in extra 55%

By John Thornhill

A SERIES of acquisitions belped York Trust Group, the USM-quoted financial services and investment concern, lift pre-tax profits by 55 per cent, from £5.51m to £8.55m, in the year to March 81.

Group income rose by 60 per cent to £29.49m (£18.4m). A final dividend of 1.7p will make a total of 2.7p, a 35 per cent advance over last year's

Diluted earnings per share, however, fell to 6.8p (8.1p) because of high extraordinary losses of £1.84m associated with the closure of two busi-nesses: the loss-making personal finance arm of Richards Longstaff and the group's inter-dealing broking compa-

nies in Australia.

During the year the group reshaped its activities and evolved into a more broadlyased financial services organ isation by making five acquisi-

Those purchases included the US Kennedy companies and Babcock & Brown, the international leasing and money and financial futures broker.

Mr Neil Balfour, chairman and former Euro MP, said this transformation in the company's activities would bring a better quality of earnings in the future.

The profits, broken down by

The profits, broken down by activity, were: investment activities £3m (£3.52m); corporate finance £2.62m (£64,000); financial services £1.52m (£30,000 loss); financial broking £2.48m (£2.38m); asset finance £1.04m (£631,000). Mr Balfour said all the group's activities were currently performing well and, in

COMMENT

The quick-shifting nature of York's businesses provides some difficulties in trying to evaluate its performance. Originally the group was classified as an investment bank, but as Mr Balfour rather miffily comments, the Bank of England no however, according to a cir-cular sent to shareholders, "an impasse has been reached" between one board member, Mr William Anstis, and the other directors over this. The group's largest institutional shareholder, M&G, is now callments, the Bank of England no longer allows York to call itself that. York has since broadened its interests and has strenghtened its position in pension fund management, financial broking, pensions consultancy and offsinare services. Some of these additions, in particular Babcock & Brown, look promising and will help to enhance profits sustantially in the current year. A conservative estimate of £13m in pre-tax profits of £13m in pre-tax profits would put York on a prospec-tive multiple of 10, after the increased number of shares in issue because of deferred con-siderations squeezes earnings growth. Many are still wary of financial services groups such as York after recent bad expe-riences, but on that rating it could still turn out to be an

Allied Colloids rise marginal as exchange rates take toll

By Vanessa Houlder

EXCHANGE rate movements severely affected the results of Allied Colloids, speciality chemicals manufacturer, which yesterday announced a 2.2 per cent rise in pre-tax profits for the year ended April L

Pre-tax profits rose from £35.42m to £36.2m on turnover which increased by 11.8 per cent from £162.96m to £182.25m. The company estimated that the strength of sterling lopped off £5.7m from profits. Overseas sales account for 80 per cent of turnover, with the Americas and Continental Europe each accounting for about one-third.

Mr John Binnie, sales director, said the company was fairly bullish about prospects given the recent fall in the dollar, although the effect would be muted as a result of a hedging exercise, which has estab-lished an effective exchange rate this year of \$1.64.

FLOYD ENERGY, has acquired

a third engineering company as the group moves to diversify away from its base in oil and

away from its base in on and related process industries. It is paying a maximum £12.8m for Romein Roosendaal Beheer, a Dutch-based designer, engineer and fabrica-tor of steel structures.

Floyd is also negotiating the disposal of two onshore oil

exploration and production

areas in Spain. A firm cash offer had been received and a decision was expected within

The result reflected a recovery after a small profits decline in the first half, when the traditional weakness was exacerbated by delayed orders.

Raw material prices increased over the year, although the price rise slowed down in the second half. The largest division by sales is the pollution business. Its other divisions comprise paper, mineral processing, general industries, agriculture, and oil

Capital expenditure on plant improvement and buildings was over £20m, of which 60 per cent was spent in the UK. Earnings per share inched ahead from 8.9p to 8.92p. A final dividend of 2p (1.65p) is recommended, making a total for the year of 2.65p against 2.3p previously 2.3p previously.

• COMMENT Few chemicals companies are more at the mercy of currency

Floyd in third engineering buy

three to six weeks.
The initial £8.5m consider-

ation for the Dutch group, which operates in the Benefux countries, is being financed through a mixture of medium-

term finance, a placing of shares and an issue of shares

Institutional investors are taking up 19.5m Floyd shares at 20p each, raising £3.8m after expenses, while £5m will come

from the arrangement financ-

ing and £200,000 through the

fluctations than Allied Colloids, which exports 70 per cent which of its products. But last which of its products. But has year's loss may be this year's loss may be this year's gain; and the strong profits growth, masked last year by the strength of sterling, should now come through helped by the the fall in sterling and its hedging operations. The pros-pect of relative stability in raw material prices also suggests an optimistic view of this year. Looking further ahead, the prognosis also looks encourag-ing. Allied Colloids is one of the purest of speciality chemi-cal companies, which will give it some protection against price competition and

furthermore, its involvement in pollution control exposes it to a valuable growth market. For this year, analysts estimate pre-tax profits of £43.5m, which on a share price of 149.5p, up 3.5p, leads to a fully valued p/e of 13.5.

Romein had £2.6m of net assets and £2m in cash at

December 31 last year and

reported pre-tax profits of

2.4m for 1988.

This is the largest of the three purchases Floyd has made in the engineering sector

during the past eight months. Last month Whiteley Reed, which specialises in pressure

vessels, was acquired and Mech-Tool, a Darlington-based group operating in oil rig engi-

Atkins Bros falls to intense competition

ATKINS Brothers (Hosiery), the textile and electronics company in which Mr Russell Coward the Australian investor, has a stake, saw its pre-tax profits fall from £1.62m to £1.27m last year because of intense competition in both

areas of activity.

Mr Bill Dawson, chairman, said the level of competition was still intense in both areas, especially in textiles. The chairman hoped to maintain profits from textiles this year, although he expected the electronics division to return to

profits growth.
In the year to March 31 1989,

Atkins' sales fell slightly to £19.77m (£19.96m). The pres-

sure on profitability caused a reduction in operating profits to £1.49m (£1.73m).

Earnings per share fell to 21.15p (28.36p). The final dividend is 7.7p thereby raising the total to 11p (10p). The share raise was stable at 232p weeker. price was stable at 238p yester-

Atkins, which is based at Hinckley in Leicestershire, is involved in the production of leisurewear, hosiery and underwear. In the last year these sectors have been hit by the parallel problems of ing imports and retail

destocking.

As a result, Atkins has suffered intense pressure on margins and its operating profits from textiles fell to £1.45m (£1.63m) on sales of £15.09m (£15.04m). Mr Dawson said the pattern of retail demand had stabilised, but import pressure was still intense. Atkins has reorganised by reducing its involvement in knitted fabric

The company diversified into electronics four years ago by buying a group of small busi-nesses. They fell into a loss because of management prob-lems. Atkins had hoped to sell

end-May 1988, G & H reported

pre-tax losses of £79,000. Net assets were £64,000.

However, MTS yesterday indicated that the deal could provide some flexibility over

where the company's operations were based. This, in turn, might allow it to free some of the space at freehold premises in St John Street,

Textiite, one of the businesses, but decided to close it having failed to agree a deal. Cartner Engineering, the

remaining electronics company, managed to increase sales last year, despite delays in some large contracts. The electronics division produced operating profits of £145,000 (£211,000) on sales of £4.67m

Mr Goward is thought to intend to sell his 9 per cent stake in Atkins. Mr Dawson said the board hoped to ensure that the holding would be bought by a group of institu-tional investors.

week directors said that they

were still considering a pro-

posal concerning the compa-

ing for Mr Anstis' removal at

However, according to a cir-

ny's future,

group's activities well and, in particular, he highlighted the rapidly expanding lease finan-cing activities of Babcock & Brown.

interesting investment. And with a good yield and liquid investments, it would seem to have little downside unless markets turn very nasty.

Cranbrook Electronic ahead 50%

In the six months ended March 31 1989 Cranbrook Electronic Holdings lifted its pre-tax profit by 50 per cent, from £75,000 to £113,000.

Mr Tony Diamond, chair-man, said despite signs of reduced activity in the market, he believed the company was in a strong position to grow and continue to meet market

Cranbrook is a USM-quoted distributor of high technology electronic components and

Turnover in the six months expanded 40 per cent to £5.93m (£4.23m), and from maintained earnings of 0.8p the interim Increased operating expenses reflected the acquisition of MCP Electronics last November, though effectively those expenses now represented only 28 per cent of sales, compared with 31.4 per cent in the same

MCP made a useful contribution. Progress at Pronto Elec-tronic Systems was slowed by supply and technical problems with one of its major fran-chises. Efforts were in hand to make good the shortfall.

Authorised

£602,020

uPVC but also aluminium.

Acquisition for Meat Trade

By Nikki Tait

MEAT TRADE Suppliers, the sausage casings and butchers sundries supplier currently facing boardroom differences, yesterday announced the acquisition of G & H, a sausage casing and meat trade suppliers wholesale business in Deptford, south London.

The cash consideration will be based on completion accounts which are being prepared, but is expected to be about £25,000. In the year to

The company's shares were suspended in March, and last Channel Express ahead of forecast -

his personal dividend into the UK's only specialist flower distribution company as the group declared a 56 increase in pre-tax profit to £1.13m in the year to March 31 - its maiden

Mr Meeson, who owns 75 per cent of Channel, said the company would retain about £100,000 of his 1.3p per share dividend, the first issued by the company since its Novem-

This advertisement is issued in compliance with the requirements of the Council of The Stock Exchange. It is This agreetisement is issued in computance with the requirements of the Council of the South Extending to the not an invitation to the public to subscribe for or purchase shares.

Application has been made to the Council of The Stock Exchange for permission to deal in the whole of the Ordinary Share capital of Plastiseal PLC, issued and to be issued, in the Unlisted Securities Market. It is emphasised that no application has been made for these securities to be admitted to Listing. It is expected

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by

SMITH KEEN CUTLER

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Ordinary Shares of 5p each

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sonal enthusiasm and confidence in the company," he

At the time of flotation Channel forecast profits of £1.05m. During the year the company doubled its fleet of Dart Herald airplanes to eight to service its growing over-night freight delivery business.

Turnover was up 64 per cent to £13.44m (£8.19m) – the over-night delivery business

Issued and to be Issued

fully paid

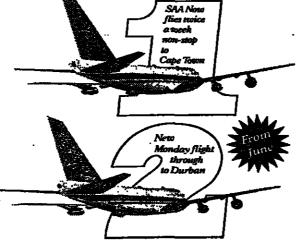
£392,715

MR PHILIP Meeson, the chairman of Channel Express, ploughed back 90 per cent of assure my investors of my per-share jumped to 7.4p (1.2p). Mr Meeson forecast that the biggest area for potential growth would come from the distribution of flowers imported from outside its base in the Channel Islands. The company was also negotiating to expand its freight distribution fleet with the addition of a US airplane. The chairman said that costs

for additional aircraft had been contained because Channel

had bought used planes.

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and recovers to £2m By Andrew Hill Since 1987-88, bought-in low-margin parti-tions held back profits, it had

PROFITS AT Unilock Holdings, which makes and instals screens and partitions for office interiors, recovered to £2.01m before tax in the year to March 31, compared with a disappointing £1.15m in the equivalent period.

Unilock lifts margins

Turnover was up from \$22.3m to \$24m and earnings per share from 4.39p to 5.74p, still down on the record 1986-87 figure of 6.45p.
Unilock said gross margins had risen from 22 per cent to 27 per cent, on the back of

improvements in productivity and performance in the con-Costs had been reduced. The company had started paying productivity bonuses instead of overtime, and employing a higher proportion of sub-con-

tractors for installation. Unilock was winning larger contracts at better prices. Last year contracts had an average value of about \$20,000, and it was hoped to increase that to at least £50,000.

also rethought its product strategy, eliminating loss-mak-ing goods. Various one-off costs cut the impact of these improvements and in trading terms profits had more than doubled. The profit was struck after £155,000 (credit £255,000) legal costs incurred defending its

Mistral product range against a competitor alleged to have copied the partitions. It was also reduced by £190,000 costs linked to the £2m

expansion at Hastings and the expansion at Hastings and the start-up of a new division mak-ing access flooring for offices. Mr Randal Warner, Unilock's chief executive, said the com-pany was contemplating further expansion into complementary activities, and was looking at acquisitions in con-tinental Europe.

A final dividend of 1.5p is

recommended making a total of 2.6p (2.2p) for the year.

Racal spending \$19m to strengthen product range

By Terry Dodsworth, Industrial Editor

RACAL-REDAC. loss-making computer-aided design subsidiary of the Racal electronics group, is spending \$19m (£12.15m) on the acquisition HHB Systems, a US supplier of computer-aided engineering equipment.
The company said that the

purchase was part of its policy of strengthening its product range in the face of strong ompetive pressures. Racal-Redac had not been

growing as fast as the market in the US and Europe, and needed to increase its appeal to Sales of computer-aided

design, manufacturing and engineering products are increasing at between 30 per

cent and 40 per cent a year in developed industrial markets. Racal-Redac is only achieving this rate of growth in Japan, and shareholders were told late last year that it was making a "significant loss" "significant loss."

HHB, currently owned by Dalsy Systems of the US, has had a working relationship with Bacal-Redac for several years. The UK company said that the acquisition will strengthen its dominant posi-tion in computer-aided design systems for printed circuit boards.

The combined turnover of the two businesses stood at around £19m in the 1988 calen-

Unilock Pre Tax Profit up by 74%

1989 £'000 £'000 22270 Turnover Profit before exceptional items 899 255 1154 Exceptional items Profit before tax (683) 1325 (148) 1006 Profit for the financial year Ramings per share Net dividend per share 5,74p 4.39p 2.20p

 EPS up 31%
 Dividend up 18% £2m invested in factory, equipment, new products "We look forward to the future with confidence" Chairman, Mr K T Roberts

Unilock Holdings plc Relocatable Partitioning Systems, Interior Refurbishment Contracts, Mobile Walls, Fine Standing Screen Systems, Perimeter Heating and Cladding, Architectural Joinery

Capies of the full Annual Report are available from the Secretary, Perimeter Hou Castleham Industrial Estate, St Leonards on See, East Sussex TNSS 9N Y.

neering work was bought in November. Reorganisation helps Monks &

Crane to £2.5m Monks & Crane, the USM-quoted distributor of engi-neers' tools and fixing prodneers tooks and rating procures, saw turnover and pre-tax profits rise nearly 19 per cent and 25 per cent respectively in the year to March 31 1989.

Increased penetration by the group's own brand products and £358,000 received from sales of branches helped push profit up to £2.51m (£2.01m), while turnover reached \$46,61m (\$39.28m).

Earnings were 9.4p (7.4p). The recommended final dividend is 2.53p for a total of 3.83p

(3.2p). Mr Albert Spacie, chairman, said the reorganisation was completed and "we can look forward to continuing to improve the results of every branch and trading operations within the company".

Reorganisation followed the acquisitions of Structural Fas-tenings Group, H.E.L.D. Fixings, and Fixings Delivery.

FT Share Service

The following securities were added to the Share Information Service in last Saturday's edi-

Gartmore Value Invs. (Sec-Green (John) & Son (Papers).

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TECHNOLOGY

tions capacity is put-ting a strain on available over-the-air frequencies, especially in small, crowded countries like Japan. The problem has been dra-matised in recent weeks by a

trade row between the US and Japan over the expansion of mobile radio telephones in the Tokvo area. The Japanese Ministry of Posts and Telecommunications (MPT) has been claiming that expansion is impossible because of the lack of available frequencies

The Communications Research Laboratory of the MPT is sponsoring a number of development projects aimed at finding ways of solving this problem. One of the most ambitions involves building a geostationary satellite that will transmit several finely focused beams on different parts of the

Japanese archipelago. The main effect of this approach is that the same transmission frequencies can be used more than once in the territory being covered. Consider, for example, a con-

ventional satellite transmitting

a single beam over the entire British Isles. It transmits at a given bandwidth and, as a. result, the bandwidth cannot be used by anyone else any-where else in the British Isles. But if, for example, this satellite was replaced by another with three beams, each focused on different parts of the UK perhaps one on Scotland, one on northern England and a handwidth could be used for beams, thus effectively dou-bling the message carrying

capacity of that bandwidth in the UK. would be directed at areas sufficiently far apart from one another to mean that their dif-ferent messages would not interfere with each other. On-board switching equipment would enable messages to be sent directly to and from users

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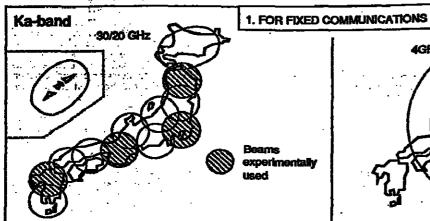
in different beam areas. In this example, the net increase in total transmission capacity compared with a single beam system would not be clear-cut, because the second bandwidth would not be used as effectively as the first. How-ever, if a much larger number of more finely focused beams were used in the same territory, then a small range of bandwidths could be reused repeatedly, and so the potential increase in capacity would be considerable.

Moreover, it seems that the simple fact of focusing the

The expending demand A geostationary satellite which is able to transmit several finely focused beams is being experimentally developed in Japan. Ian Rodger explains how this may solve the problem of congested airwaves

Multi-beam solution to a band shortage

Beam allocations of ETS-VI for fixed and mobile communications



beams adds to their transmis-sion capacity. The Japanese multibeam experimental satel-lite, known as ETS-VI, which is An additional benefit arising from the focused beams is that the signals are more powerful due to be launched in 1992, was designed to contain 13 beams, than those from conventional satellites when they reach the earth, and so they can be picked up with smaller anteneach covering an area of only 100 kilometres in diameter when they reach the earth, to nae. A second transmission system on the ETS-VI satellite cover the four main islands of the archipelago.
Nippon Telegraph and Telephone (NTT), which is developing the system for the MPT, expects that such a satellite, if will be used for mobile communications, and users will require only a 30cm high vertical bar antenna.

The satellite will carry three

transmission systems. One will be in the Ka band which could

cover Japan in 13 beams

sold for over a decade

the UK, for example, television companies continued to broadcast

on the old 405-line television channels until 1985, although new

New services are also often shelved because they are not suitable for available frequencies — each group of channels in the radio spectrum having its own

way radio frequencies behave at around 900 MHz make them suits

for use within buildings, such as

405-line television sets had not been

ristics. (For example, the

As a rule, the lower the frequency,

the further the radio signal can travel. This means that frequencies at the low end of the spectrum are

services in other countries — given

more prone to interference from

ists on low freque

ing only part of the country).
Another transmission sustem
will be in the S band for mobile communications which will cover the territory with five beams. The third will be in the C band with one countrywide beam in each of the 4 gigahertz and 6 gigahertz bandwidths for delivering the S band mobile communications signals to earth stations connected to the terrestrial telecom system. Japan is not alone in exploring the multibeam approach to

communications satellites. According to NTT officials, although the experimental satellite will only contain four beams in this band, thus cover-Italy's Italsat is planning to launch one next year, using six beams to cover Italy, and the US and Canada are working on projects for launch in 1992.

The higher the frequency, the less chance there is of interference,

expensive to set up a radio service at high frequencies because the

transmitters and receivers have to be placed closer together, pushing up the intrastructure costs. Because the established users

of radio waves have already got

useable radio channels, operators

expense. To get as much use out of their allocated frequencies as

squeeze as many customers into as small a number of radio channe

several ways of increasing the number of calls that can be made

as they can. To do this they are employing

possible, therefore, they try to

of new services are being pushed higher and higher up the frequency bands, at greater and greater

their hands on the most easily

but at the same time the distance which the signal can travel is

NTT has completed the con-struction of the ETS-VI and recently unveiled it at its Radio Communication Systems Laboratories near Tokyo. The satellite consists of receivers and transmitters for Ka, C and S band communications con-nected to each other through a switch and to two large signal reflectors through four trans-

C-band

mitting and four receiving horns. In a full production satellite there would have to be 13 horns, but for this experiment. only part of the country will be covered by the Ka band sys-

2. FOR MOBILE COMMUNICATIONS

200 neuticel

The main challenge facing the builders was to find ways of packing all the increas communications equipment into a satellite with the size and weight constraints imposed by the new Japanese H-2 rocket on which it is to be

Weight is, as always in space equipment, the main con-

weigh less than two tonnes

on one frequency.

• Cellular radio techniques. These

are now being used for most new mobile telephone services. They

split the country into a number of "cells" with the telephone call in

each cell being transmitted on a

quency can be used several times around the country, as the cells

using the same trequency will be far enough apart to avoid interference. (The Japanese ETS-VI

experimental satellite uses a similar

channels are grouped together for use by one service. When a call

is made it is allocated to the first available channel — "dynamic

ullocation". If, for example, eight

service, it can support three times the number of radios supported by a non-trunked service.

radio channels are alloca

different frequency to that of its

neighbours. This means each

addition, any changes in design from existing satellites must be made with fully proven technology, since the most important thing for a sat-ellite, as Mr Shuichi Samejima, manager of research in NTT's communications satellite laboratory explains, is that it works without maintenance for at least 10 years.

straint and the ETS-VI has to

S-band

Mobile satellite

communication

Domestic maritime radio-telephone

service area

service area

Fortunately, the ETS-VI has been built following a period in which miniaturisation in elec-tronics has made great progress. At the same time, the

 Compression. This new technique squeezes the signals into a smaller space. The new telepoint mobile services which should come into service later this year in the UK will only use half the frequency per call of current traditional voice ervices. Compression works by xtracting certain features con to all human voices for coding, and then compacting any extraneous material, it is only suitable for voice communications as data signals

 Use of data. This cuts down spectrum use - since it takes 10 times the spectrum to transmit a rmation by voice as tt does by data. However, in the US, where data transmission has become widespread for taxis and delivery fleets, the amount of on being sent has tripled.

Della Bradshaw

ened large scale integration (LSI) semiconductors has made LSIs practical for space use.

NTT is taking a bit of a chance in installing monolithic microwave integrated circuits (MMICs), a technology it announced only six months ago, in the transponders and the satellite switch. These circuits are simpler than conven-tional hybrid microwave integrated circuits, and will help further to reduce the weight of the transponders.

The other great advance has been in materials. For example, now that techniques for preventing surface corrosion of magnesium alloy have been perfected, the satellite's tran-sponders have been encased in this metal, which is 35 per cent lighter than aluminium.

The effect of these changes can be substantial. For example, the weight of the 30/20 gigahertz band transponders is about 2.5kg per channel, half that of the transponders in a previous experimental satellite, the CS-3, which was launched

The antenna reflectors have to be very large to achieve the accuracy of pointing required. One is 3.5m in diameter, the other 2.5m. However, weight has been kept down by making them from carbon fibre reinforced plastic.

These savings make room for additional features, including a high capacity switching ing control system. In ordinary satellites, the antenna is pointed by adjusting the atti-tude of the whole satellite. However, the ETS VI needs greater precision so motors to adjust the attitude of the antennas have been installed.

The cost of the project has not been disclosed, but NTT officials say they hope to keep the cost per unit of weight within the pattern of existing communications satellites, despite the substantial increase in communications equipment on board. That would suggest a cost of \$140m.

Assuming that all goes well with the development of the H-2 rocket, the satellite will be launched in 1992. However, it may be some time after that before it starts easing the available frequency shortage in the Tokyo area. NTT officials emphasise that the whole project is a government-led experiment with no plans for com-mercial application. "Maybe at some later time, it will be possible to use this satellite for commercial purposes," says one official.

HUMBERSIDE

ers and the Civil

fully operational, would-achieve a hundredfold increase

in capacity over a single beam

nybody who listens to the radio or television, travels by air or owns a mobile telephone is exploiting one of the world's most limited resources—

the radio spectrum. And as the demand increases, the squeeze becomes even tighter, in spite of the high public profile of radio-based consumer goods, such as car telephones and

radiopagers, these services take up a very small section of the radio spectrum — in the UK, only about

4 per cent of available frequencies. The lion's share of usable frequencies is taken up by the

stry of Defence, radio and rision broadcasters and th

Aviation Authority, which uses the

The biggest stumbling block for

new radio services is that once the apectrum is allocated, it is very

air waves for rad

The Financial Times proposes to publish this survey on:

7th July, 1989

For a full editorial synopsis and advertisement details, please contact:

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COMMODITIES AND AGRICULTURE

quarter

By Max Wikinson,

Resources Editor

THE INDUSTRIAL world's oil

consumption was 700,000 bar-

rels per day or 2.2 per cent higher in the first three

months of this year than in the same period of 1988, according to estimates published yester-

day by the International

whole the agency expects demand to be about 2 per cent

higher than in 1988.

The IEA also says that for

tently under-estimated world oil consumption, mainly

because of under-reporting of developing countries' con-sumption. The under-estimate of world oil demand rose from an average of 200,000 b/d in

1983 to 600,000 b/d last year.
The agency also believes it has under-estimated world oil

supply but by a lesser amount, averaging 100,000 b/d in 1984 and 300,000 last year.

Although the agency makes the point that its revisions do

not alter what has been hap-pening in the real world, its figures are likely to have some

effect on the politics of the Opec talks which were con-

tinuing yesterday in Vienna without agreement.

The 13 members of the carte

appear now to accept that its production of ceiling of 18.5m b/d agreed in November could

safely be raised to accommodate higher world demand.

During informal talks over the

weekend it appeared that

Saudi Arabia was prepared to accept a 1m b/d increase in

production to be shared by all

members in proportion to existing quotas, with a 500,000 b/d "temporary" increase to be

shared between Kuwait, the United Arab Emirates and

Chinese crisis rocks grain futures

By Deborah Hargreaves in Chicago

THE POLITICAL turmoil in China has rocked Chicago's grain futures this week in a market already depressed by rainy weather in the Midwest. The grain markets at the Chicago Board of Trade remain extremely nervous as the effects of the uproar in China and its possible effects on the grain trade become apparent. In spite of an unusually large purchase of wheat by China, which was announced on Monday, wheat futures

Traders believe the 1.85mtonne wheat purchase represents old business that is still to be shipped and is now being registered in case the US Government imposes restrictions on grain trade with the coun-

The rush by commercial exporters to register wheat sales to China recalls a similar move by the grain trade which followed the Soviet invasion of Afghanistan and preceded the US grain embargo on the Soviet Union

China's huge wheat puroutside the US Export though the country still has a considerable amount of subsidised wheat under the programme it could draw on. Traders believe China will continue to turn to the commercial market since these sales cannot be cut off for foreign policy reasons as could the

China has bought 1.1m tonnes of wheat under the export programme so far this year and has 910,000 tonnes still available. The country's internal struggle could turn it to the world market for even more grain since troop move-ments will hold up the transport of home-grown grain to its large coastal population.

The US Department of Agri-culture earlier estimated that China would buy 16m tonnes of world market wheat in the 1988-89 marketing year and another 16m tonnes in 1989-90. China's production of maize is also likely to be affected by the political strife, and Chicago's markets were counting on lower Chinese sales of maize to the Soviet Union yesterday. China exports some 4m tonnes of maize a year with almost half of that going to the

Soviets. There have already been reports of a disruption in containerised shipments to

Hong Kong.
"There's something for everyone in these markets right now," commented Mr Bruce Nathanson at Linnco Futures in Chicago, "they're very sensitive to what's going on and could turn on a dime. Trading was thin yesterday at the CBoT as many players

watched developments from the sidelines. Grain futures in Chicago have already been depressed over the last couple of weeks by the return of normal spring weather to the Mid-west which makes a repeat of last year's drought extremely unlikely. Ironically, the one piece of

news that has given a modest strength to the market is about unusually wet weather in parts of the Eastern combelt - Ohio and Indiana. Heavy rainfall in these states has delayed maize planting by several weeks. This has boosted futures prices for new crop maize - the by several cents. However, overall, grain futures have dropped to below their levels a year ago when drought fears pushed the market into orbit. Although the harvest of winter wheat is expected to be low because of poor growing condi-tions in Kansas, the extent of the damage is not thought to be as great as was initially

Reacting to a buoyant world market for wheat, the US Department of Agriculture has increased the amount of acreage available for planting wheat in the US next year. The Department has announced that only 5 per cent of available land will be set-aside under its acreage reduction programme. This marks a decline from 10 per cent this year and 27.5 per cent last year. The 5 per cent set-aside represents an increase of 1.7m acres planted with wheat or an estimated additional 50m bush-

els of grain. Mr Regie Wyckoff, president of the National Wheat Grow-ers' Association said: "World wheat demand appears strong for the foreseeable future, this dest increase in production will be snapped up by the mar-ket rather than going into farmers' grain bins."

Oil demand | Support grows for coffee plan up 2.2% preferred the Colombian proin first

A COLOMBIAN proposal for a two-year extension to the Inter-national Coffee Agreement yes-terday appeared to be gaining support at talks in Lendon on the future of the pact. Mr Jorio Dauster, head of

the Brazilian delegation, said the reaction of other delegates to the proposal, which was hammered out by the majority of producers yesterday morn-ing, was "very positive" and a "meaningful step forward." The proposal envisages a

two-year extension, with any redistribution of export quotas to be agreed at the ICO annual meeting in September.

posal to another made by the EC for a three-year extension, but said the US would only consider any extension for one year, and "then only if we know the allocation of quotas for that year."

One of the main US com-plaints about the current agreement is that the export quotas by which the ICO alms to stabilise prices do not allow enough top quality arabica coffee on to the member market. The other mild countries mainly Central American arabica growers, said on Monday they would not accept an extension unless a redistribuagreed during this week's talks. At yesterday aternoon's council meeting they came under attack from African robusta producers who said the other milds were against the the Colombian proposal even though they were the main offenders in selling coffee cheaply to countries outside the agreement - which has

argered all consumers.

The Colombian proposal aims to tackle this so-called two-tier market by agreeing quantitative restrictions on exports to non-members in

This morning the ICO council reconvenes to continue discussions on the proposal.

Fijians strive to feed themselves

Geoff Tansey on increasing rice output and crop diversification

IJI IS increasing its self-sufficiency in rice and diversifying cash cropping, which is still dominated by sugar. Three-quarters of the 70 per cent of total domestic export earnings accounted for by agriculture come from sugar.

Rice consumption grew in the 1980s, from about 38,500 tonnes in 1981, to an estimated 48.000 tonnes in 1988, with per capita consumption around 62 kg a year. Thanks to increasing domestic production, up from 17,000 tonnes in 1981 to an estimated 32,000 tonnes in 1988, imports have fallen from 21,500 tonnes to 16,500 tonnes, making the country about two-thirds self-sufficient. Still. officials want to replace more of the F\$7m (£2.9m) spent on

The prime target is 90 per cent self-sufficiency by 1990. Senior officials in the Ministry of Primary Industries admit that this may not be reached but expect about 75 per cent self-sufficiency in 1989.

Droughts and cyclones in the 1980s, plus the disruption resulting from two military coups in 1987, have hampered development. In rice, pro-duction increases are coming through expansion of the area grown, through drainage and irrigation to allow double more intensive production

Overseas aid plays an impor-

VIETNAM IS expected to export about 800,000 tonnes of low-grade 25 and 35 per cent white rice this year, Thai traders said, reports Reuter from

Bangkok. The traders, who closely monitor rice trade in South East Asia, said Vietnamese rice exporters had been partic-ularly active this year with shipments reaching about 400,000 tonnes during the January/May period. They did not provide comparable fig-

Most Vietnamese exports went to western and southern Africa, the traders added.

tant part. The Food and Agriculture Organisation of the United Nations (FAO) provides a chief technical adviser to the drainage and irrigation divi-sion of the primary industries ministry. The Australians are funding development of irrigated rice in Vanua Levu with A\$6.5m over four to five years, and the Japanese have an aidin-kind project to develop a small area for irrigation and introduce new varieties in the Navua River area.

Small farmers here can now double-crop their six to 12 acres. They adjoin one of Fiji's biggest diversified agricultural enterprises, Consolidated Agri-culture, which has given part its land by the ministry. Despite the poor investment climate, owing to political

uncertainty, Consolidated Agri-culture is still committed to investing in agriculture, "As a whole, I think that the agricul-ture sector in Fiji deserves investment," says Mr Black-ney, one of the partners. He sees the need for diversifica-tion and increasing returns in the rural sector.

Rice does increase returns, especially for the smallholders who form the bulk of the country's 13,300 rice farmers. They have a guaranteed market for paddy, at F\$320 per tonne, although many mill it themselves and sell on the market direct where rice cost from 80 cents to F\$1 a

Both government and aid officials in Suva and Canberra defend themselves from the criticism made by some Australian academics that the investment in rice is uneconomic by pointing to the broader impact it has on the communities where production is increasing.

Diversification is under way too. Ginger production and processing is encouraged, with exports now reaching F\$3m. Old coconut plantations are being rehabilitated, with part of the European Community's dam to provide the gravity-fed five years, to expand its role as irrigation system in return for canal and drainage works on the processed production in confectionery, desiccated or Fiji wants to encourage joint

ventures for processing, for which substantial tax incentives are available The key word at the ministry is consolidation — to build on the infrastructural investments of the last ten years and minimise further capital investments.

ment. This means intensified use of agricultural land Another aim is to develop niche markets, for example, with pawpaw to Japan, despite some problems with quality and pests. Fisheries are also ading and exports, partly helped by Japanese aid in building a cannery.

Some feel the ministry does not pay enough attention to developing local food crops, like yam and cassava. These are grown more in the interior where the land is coming under population pressure with more cultivation of steep

The National Food and Nutrition Committee is con-cerned about the emergence of western disease patterns linked to western-style diets and would like to see more emphasis on developing local food crops. Senior officials recognise that they have not paid enough attention to the nutritional aspects of food proney are try ing to integrate the commit-tee's concerns into their

Energy Agency. The latest demand figures from the Paris-based agency's Monthly Oil Market Report Mr Jon Rosenbaum, head of the US delegation, said the US tion of export quotas was help to explain why oil prices have remained fairly firm while the 13-member Organisa Weaker demand forecast tion of Petroleum Exporting Countries maintained produc-tion well above its agreed for aluminium this year quota level. For the year as a

By Kenneth Gooding, Mining Correspondent, in Brussels

DEMAND for primary aluminium in Western Europe is forecast to rise by no more than 1 per cent this year from last year's record 4.3m tonnes, according to the European Aluminium Association.
This indicates that the

Association expects a considerable weakening in demand later this year because sales in the first quarter were 10 per cent ahead of the same months in 1988 at 885,000

The association predicts, however, that over the next five years demand for primary aluminium in Western Europe will grow at an annual average of 2 per cent. But all the extra demand will be provided by imported metal. Last year primary aluminium production in the region reached 3.5m below consumption.

There was some drawdown of stocks, but most of the difference between demand and supply was made up by imports, which reached an unprecented 450,000 tonnes. As stocks are near the lowest level possible, the Association expects that another 40,000 tonnes will have to imported this year.

three smaller-scale producers.

Kuwait and the UAE have been greatly exceeding their quotas. By legitimising higher levels of output the group would hope to induce stricter discipline in future.

According to the IRA, both the UAE and Kuwait produced 1.6m b/d in May, compared with quotas of close to 1m b/d in each case. Yesterday, the group returned to informal talks amid signals that Kuwait was unwilling to accept a revised quota close to 1.3m b/d, while Saudi Arabia was refusing to agree to any special allocation unless Kuwait would reduce

production to this figure.

WORLD COMMODITIES PRICES

Mr Theodor Tschopp, chairman of the association, pointed out that although primary aluminium output was moving to areas of the world with low cost hydro-electric power, western Europe needed to maintain a reasonable level of production capacity to feed its growing domestic mar-

However, he expected the planned increases in capacity in the region - including Pechiney's 200,000 tonnes a year smelter at Dunkirk in France - to do no more than

replace the closures.

The western European industry is also taking steps to speed up the development of the secondary aluminium (or scrap) industry. A record 1.6m tonnes of recycled metal was used in the region last year.

"We expect this trend to con-tinue in the years ahead, not only because of the shortage of

primary aluminium capacity, but also the increasing volume of scrap resulting from alumin-ium industrial goods ending their service life," said Mr Tschopp. The industry is aiming to build its share of western Europe's 16bn beverage can market from 38 per cent to 50 per cent by 1991.

WEEKLY METALS PRICES

COPPER 25,000 lbs; cents/lbs

All prices as supplied by Metal Bulletin (last week's prices in brackets). ANTIMONY: European free

market 99.6 per cent, \$ per tonne, in warehouse, 1,830-1,870 (1,850-1,900). EISMUTH: European free market, min. 99.99 per cent, § per lb, tonne lots in warehouse, 5.65-5.95 (5.90-6.20).

CADMIUM: European free market, min. 99.5 per cent, \$ per lb, in warehouse, 6.40-6.70

COBALT: European free market, 99.5 per cent, \$ per lb, in warehouse, 7.45-7.65 (same).

MERCURY: European free market, min. 99.99 per cent, \$ 9.85 (10.70).

per 76 lb flask, in warehouse, 45-260 (250-269). MOLYBDENUM: European free market, drummed molyb-dic oxide, \$ per lb Mo, in ware-house, 3.68-3.75 (same). SELENIUM: European free market, min 99.5 per cent, \$ per lb, in warehouse, 6.50-7.30

TUNGSTEN ORE: European free market, standard min. 65 per cent, \$ per tonne unit (10 kg) WO, cif, 51-64 (same).
VANADIUM: European free market, min. 98 per cent, \$ a lb

Bougainville issues copper supply warning By Chris Sherwell in

BOUGAINVILLE Copper, the Papua New Guinean copper and gold mine shut down for the past three weeks by sabotage and guerrilla violence, has told customers it faces a "force majeure situation," but says it has not yet lost any sales.

A company official con-firmed that it had issued notices to its customers informing them it was unable to meet its obligations on two shipments of concentrate due to be despatched in May, and another this month. There was also concern about shipments

due in July and August. But he added that the company had not yet reached the stage where it could not deliver, and had therefore not claimed force majeure. "We're simply advising customers that the situation was now very

serious." he said. A 15-day truce on Bougain-ville island was meanwhile due to expire last night.

A Catholic Church leader,

acting as mediator on behalf of the Port Moresby Government, has held talks with Mr Francis Ona, leader of a militant group of disaffected landowners demanding heavy compensa-tion for the establishment and operation of the mine.

Details of the talks have not been made public, but it is clear that the Government must decide either to extend the truce in order to take the discussions further or to declare a state of emergency and escalate its military

An estimated 15 people have died over the past seven months as government troops have clashed with the rebel landowners who have attacked local civilians and launched sabotage and arson assaults on

mine and other property. The Government is a 20 per cent shareholder in Bongain. ville Copper, which is controlled by CRA, the Australian resources group.

Chicago

LONDON MARKETS

futures market to stage a sharpish rally yesterday, although the general market tone remained dull in the absence of fresh fundamental news. The September position ended the day £22 higher at £814 a tonne. Most London Metal Exhnage markets went into reverse, meanwhile, with rally's ion base metals which had been falling and falls for those which had been rising. Dealers said cash high grade zinc's \$22.50 rise to \$1,500 a tonne, had resulted from shortcovering as dealers came to the conclusion that the market had become oversold in the recent \$180-plus price slide. It was much the same for copper, where the cash position bounced off an £8-month But cash lead surrendered some of the advisce which had resulted from supply squeeze fears in recent days.

SPOT MARKETO		
Crude oil (per barrel FOB)		+ or
Dubel Bront Blend W.T.I. (1 pm est)	\$15.90-6.00v \$18.35-8,45 \$20.38-0.43v	+,025
Off products (NWE prompt delivery per b		+ or
Promium Gasoline	\$234-236	-1.5
Gna Oil Heavy Fuel Oil	\$147-148 \$91-94	-2 -2
Naphtha Petroloum Argus Estimates	\$186-188	2
Citier		+ or -
Gold (per troy ozje	\$365.25	-1.00
Silver (per troy oz) \$\frac{1}{2} Pletinum (per troy oz)	527¢ \$500.00	-4 -3.25
Palladium (per troy oz)	\$153.20	+0.55
Aluminium (free market)	31915	-70
Copper (US Producer)	113%-15%c	-3
Lead (US Producer) Nickel (free merket)	37.25c 560c	
Tin (European free market)		-10 -7.5
Tin (Kuala Lumpur market)	27.19r	+0.01
Tin (Now York)	470.5c	+1.0
Zinc (US Prime Western)	831gc	
Cattle (live weight)†	120.90p	+2.06
Shoop (dead weight)†	239.02p	+25.5
Pigs (live weight)t	87.COp	+ 2.85
Lendon delly suger (rew)	\$290,40	-42
London daily sugar (white) Tate and Lyle export price	\$350u £291	-3 +1
Barley (English feed)		Τ1
Maizo (US No. 3 yellow)	C104.5w C131.5	
Wheat (US Dark Northern)	£129,25u	
Rubber (spet)\$	57.00p	-0.25
Rubber (Jul) 🛡	82.75p	-0.75
Rubber (Aug)♥	62.75p	-0.75
Rubber (KL RSS No 1 Jul)		₹
Coconut oil (Philippines)§	\$565 ₄	-5
Palm Oil (Malaysian)5	\$390.0 \$357.5	-25
Copra (Philippines)5 Sovaboans (US)	£196.0	+3.5
Solutionie (ne)	C 18071	- 3.5

Cotton "A" Index Wooltops (64s Super) E a tonne unioss otherwise stated, p-pence/kg. s/ib. r-ringgit/kg. v-Jul. U-Jun/Jul. z-k#/ Aug. w-Aug. z-May/Jun. †Mest Commission average falstock prices. * change from a week ego. **\$**London physical market. \$CIF Roberdam. \$\triangle Bullion market close. m-Malaysian cents/kg.

	Close	Previous	High/Low	
ᆀ	795	773	796 773	_
Sep	814	792	814 787	
Dec Mer	869 871	839 846	870 844 871 848	
May	878	854	872 862	
7ml	896	873		
Sep	909	<u>889</u>	910 891	
Turnova	s:4871 (49	320) lots of	10 tonnes	
price to	rJun 89	66.78 (965.	is per lanne). D 69) :10 day aver	BIJ. BOX
for Jun	6 961.44	(982.27)	,,	_
	£/tonne			
	Close	Previous	High/Low	
Jly	1192	1183	1200 1175	_
Sep	1157	1163	1167 1160	
Nov	1150	1148	1162 1136	
Jan Mar	1145 1143	1143 1144	1146 1134 1141 1133	
May	1140	1148	1141 1140	
Turnove	r:4382 (23	159) lots of	5 tornes ents per pound) (114.40) _ 15	_
ICO Ind	icator pri	ces (US c	ents per pound)	to
Jun 5:	Comp. d 116.26 (1	ally 112.02	(114.40) _ 15	du,
aror allo	11020 (1	i razoj		
SUCAR	(S per to	nno)		
Row	Close	Previous	High/Low	_
Aug	251.60	250.40	251.40 246.80	_
Oci	251,60	250.20	251.60 246.60	
Dec	250.00	249.40	246.00 244.80 240.20 242.20 239.20	
Mar May	245.20 243.40	243.20 242.40	244.80 240.20	
White	Close	Previous		_
			High/Low	
Aug Oct	343.00 323.00	340.50 321.50	342.00 337.00 322.00 319.00	
Dac	316.00	812.50	322.00 315.00	
Mar	304.00	301.50	301.50 300.00	
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Jul Aug Sep Oct Nov Dec Turnoves Seps E Seps	This (FF 5, Mar 20) GRL \$/bai Close 18.05 17.77 17.57 17.98 17.98 147.76 147.76 148.50 149.75 151.50 153.75 8489 (90 1 Dundoe \$\text{3WC}\$ \$475, \$\text{3WC}\$ \$485, \$\text{3WC}\$ \$475, \$\text{3WC}\$ \$485, \$\text	rrei 18.03 17.56 17.50 1	25 Aug 2020. 28 High/Low 18.07 17.94 17.84 17.83 High/Low 148.75 147.25 149.00 147.00 149.90 147.00 150.25 149.25 151.50 161.00 152.75 152.00 153.75 153.00 109 Ionnes	
Paris- W Dec 211: CRUDE Jul Aug Seo PE Inde Turnove GAS CR Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	Thite (FFr 5, Mar 20) ORL \$/bas 18.05 18.05 17.57 17.57 17.98 17.98 17.98 147.76 147.76 148.50 148.50 148.75 151.50 152.50 153.75 8489 (90 I Dundoe 3WD \$465 3WD \$465 3WD \$465 3WD \$465	rei Previous 18.03 17.56 17.56 17.56 17.54 18.07	25 Aug 2020. 28 High/Low 18.07 17.84 17.84 17.83 High/Low 148.75 147.25 149.20 147.00 153.75 151.00 152.75 152.00 153.75 153.00 100 homnes BWC \$540, BTU twerp - BTC, BTD \$440.	
Paris Willer See Juli Aug See IPE Inde Tumove GAS CE Turnove Ce and SASS, I SEES, I COTTRIL Liverp	Thite (FF: 5, Mar 20) GRI. Shau Close 18.05 17.77 17.57 17	Previous 18.03 17.90 17.	25 Aug 2020. 28 High/Low 18.07 17.94 17.84 17.83 High/Low 148.75 147.25 149.00 147.00 149.00 147.00 149.05 147.25 151.50 161.00 152.75 152.00 153.75 153.00 GG lonnes BWC \$540, BTD \$446.	
Paris- W Dec 211: CRUDE Jul Aug Seo PE Inde Turnove GAS 022 Jun Jun Jul Aug Sep Oct Nov Dec Turnove Suffe Cantol Suffe Cantol Suffe Cantol Suffe Cantol Suffe Cantol Suffe Cantol Suffe Suff Suff	Thite (FFr 5, Mar 20) ORL \$/has 18.05 18.05 17.57 17.57 17.58 17.98 17.98 147.76 147.76 148.50 148.50 151.50 152.50 153.75 8489 (90 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.50 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 151.60 152.60 153.75 153.75 153.75 153.75 153.75 153.75 154.80 154.80 154.80 154.80 155.80 1	rrei 18.03 17.56 17.50 17.56 17.50 17.56 17.54 18.03 17.54 18.03 17.54 148.05 148.05 148.05 152.50 153.50 1	25 Aug 2020. 28 High/Low 18.07 17.84 17.84 17.83 High/Low 148.75 147.25 149.00 147.00 148.90 147.75 150.25 149.25 151.50 161.00 152.75 152.00 153.75 153.00 100 tomnes BWC \$540, BTO \$440.	
Jul Aug Sep Inde Jul	Thite (FF 5, Mar 20 Close 18.05 17.77 17.57 17.57 17.57 17.58 17.9	Previous 18.03 17.56 17.56 17.56 17.56 18.07 18.	25 Aug 2020. 18.07 17.94 17.84 17.83 High/Low 148.75 147.25 149.00 147.75 149.50 147.75 150.25 149.25 150.25 149.25 150.25 152.00 153.75 153.00 GB lonnes BWC \$540, BTD heerp - BTC, BTD \$446.	
Jul Aug Sep Inde Jul	Thite (FFr 5, Mar 20 OFL \$/bas 18.05 18.05 17.98 77.98	Previous 18.03 17.56 17.56 17.56 17.56 18.07 18.	25 Aug 2020. 28 High/Low 18.07 17.84 17.84 17.83 High/Low 148.75 147.25 149.00 147.00 148.90 147.75 150.25 149.25 151.50 161.00 152.75 152.00 153.75 153.00 100 tomnes BWC \$540, BTO \$440.	

	Clos	T EXCH	Previous	High/Low	(Prices suppl				_
Alexander			Previous 3 per tonne)	ary v LDW	AM UTH			Oper over 14	
Cash	1985		2000-10		1940-5		g wink	14 E	,,,
े व्याप्तायम्ब इ.स.च्याप	1915		1943-6	1930/1895	1901-2	1910-0	,	34,19	18
Copper, C	irede A	(E per to	rane)			Rin	i iumq	wer 26	.54
Cash .	1565		1546-8		1547-8				
months			1567-8	1582/1568	1567-8	1574-5		75,37	
Leed (E p						Rii	ng turm	over 9	9
Çash 3 months	435-4 396-6		445-50 394-5	440/438 398/392	438-40 392-2.5	395-7		9,774	
Mickel (\$			-		30.23		va kum	over 2	
Cash		3-800	12900-50	12850/125	00 12500-60				_
3 months	1200		12325-50	12200/119			26	7,855	k
Tie (\$ per	tonne)						ting to	mover	50
July 3	10270		10250-80	10900/102	10240-80 10 10280-70		_		
3 months	10290		10270-5	102007 102	10 10200-71			660 1	
			S per tonne)	440044500	1593-5		g win	over 6,	-
Cash 3 months	1695- 1625-	30	1675-85 1515-20	1890/1890 1835/1520	1563-9 1525- 3 0	1520-3	0	11,66	5 1
Zine (\$ pe								war 12,	_
Cesh	1495	505	1475-80	1477/1475	1475-7				
attroom 6	1455-	<u> </u>	1440-3	1465/1420	1436-40	1445-6	0	10,29	0 !
POTATO						STATION MA			<u>.</u>
	Close ·	Previou			Gold (fine or			equiv	
	98.5 112.0	99.0 115,6	98.0		Clase Opening	365-365 ¹ 2		32 ½-Z 33 ¼-Z	
Apr '	166.0	168.4	167.5 164.0		Morning fix	365	2	233.048	
	182.0 189. (21	185.0	183.0 179.0 40 tonnes.		Atternoon to Day's high	: 364.9 3651 ₄ -3861		32.91	
MIN VO	-ED [3]	e) 100 UT	-V MINIOR		Day's low	3644-3644			
DOYABE	AH ME	AL E/Ionn	e						
-	Close	Previou	a High/Low		Colos	\$ price	-	viupe 3	ak
	152.00	152.50			Mapleleaf	376-381		239 /2 -2	_
	148.50 148.50	148.70 148.00	149.00		Britannia	376-361	2	239 2-2	42
		ts of 20 t			US Eagle Angel	376-361 374-379	2	739 2-5 28-5-6	12 61
	- (-,				Krugerrand	364-367	2	32-234	
REGIT	FUTU	310/1	ndex point		New Sov. Old Sov.	96-87 86-87	5	44.85 84.485	3
	Close	Previous	High/Low		Noble Plat	502.25-610.	25 8	21.05-3	Ž
	375	1351	1390 1360						
	1334 1461	1316 1427	1350 1330 1470 1450		Silver fix	p/fine az	t	JS cts	80
Jan 1	485 1510	1460 1510	1490 1480		Spot	334.85		23.00	_
	1510 1445	7210 1450	1510		3 months	346.75		36.35	
urnover					6 months 12 months	359.05		48.85	
	,	••			12 monung	382_40	٥	72.75	
ORAINS	Jonne								_
Wheat (Jose	Previous	a High/Low			TAL EXCHA			_
	15.25	115.55	115.25 115.	20	Atomirium (9.7%) (dia		Pu
	104.40 107.15	194.60	187 45 467	M	Strike price	\$ tonne Jul	Sep	Jul	
lan .	107.15	197.35 110.40	107.15 107. 110.20 110.		1850	141	123	17	
Mar	13.30	113.50	113.30		1950	74	73	50	
May	16.50	116.65	116.40		2050		40	107	
Danie -	Man	0	. UI-50		Copper (Gra	de A) C	دالد		Pu
	Jose	Previous			2400	97	147	41	
	02.70 05.95	103.00 106.20	102.75 102. 105.96		2500 2600	47 19	100	90 161	
-	09,20	109.45				18	86	191	
	Wheat	61 (68), 9	Barley 12 (35).						
umover:	iota el	100 tonne	6.		LONDON PO	X TRAPED C	FTION		
umover:					Coffee		Sep	Jul	
Turnover: Turnover								7	_
Turnover: Turnover		аптепт) р/			1150	40			
Turnover: Turnover PIGS (Car		Previous			1150 1200	48 18	85 62	27	
Furnover: Furnover PIGS (Car	h Settle	Previous 111.0				48 18 B			1
Turnover: Turnover PIQS (Car tun	h Settle Slose 11.3 08.5	Previous 111.0 108.5			1200	18	62	27	1
Plas (Car	h Settle	Previous 111.0			1200 1260	18 B	62 45	27 68	1

THE GOLD, silver and platinum markets all railled sharply in heavy volume, reports Drexel Burnham Lambert Trade, commission house and local players were all active. Gold gained over 12 dollars as the busiest metal. Technical short covering and weakness in the dollar were noted. In

US MARKETS

the softs, cocoa prices were higher from arbitrage and speculative buying Sugar trading teatured price idation as the market clo nearly unchanged. Trade support helped advance the coffee futures. Cotton futures were again lower as commission selling and lack of new buying kept the market weak. The livestocks were all lower led by belly futures that lost 185 basis July. Weak cash prices and a premium of complex was quiet as prices drifted advanced with July-November spread

GCLD 100 tray az.; \$/tray az.					
	Close	Previous	High/Lor	,	
Jun	379.9	367.5	381.0	366.3	
ألتال	380.5	368.1	0	0	
AUG	383.2	370.8	384.3	369.4	
Oct	387.2	374.8	388.D	573.3	
Dec	391.4	378.9	392.5	377,7	
Feb	395.6	382.9	396.0	382.0	
Apr	399.9	387.1	391.0	391.0 390.5	
مين	404.2	391.3	391.3 406.0		
Aug	408.5	396.5	400.0	398.5	
PLAT	NUM 50 I	ray oz, \$/tro	y qz		
	Clase	Provious	High/Lor	-	
Jui	511.2	503.6	515.5	500.5	
Oct	512.7	504.6	517.0	501.5	
Jan	514.2	505.9	516.0	503.0	
Apr	517.7	508.4	6	0	
لنال	522.4	514.1	ă	1	
		· ,-, ,		-	

SALVER 5,000 troy oz; centa/troy cz. Close Previous High/Low

New York

526.4 530.3 534.8 539.4 551.6 565.6 663.8 672.4 681.2 590.0 543.1 547.0 551.5 556.4 569.1 573.0 581.4 590.3 589.4 608.5 590.5 547.5 0 557.0 569.5 0 582.0 586.5 BESICES EUTERS (Base: September 18 1931 = 100) Juni 5 Jun 2 mrith ago yr ago 1996.7 1998.0 2007.3 1888.5 DOW JONES (Base: Dec. 31 1974 = 100) 132.22 138.38 132.25 138.78

630.0

-	Close	Previous	Links a			ncay	0		
			High/Los		SOY	ABEANS 5.	000 bu min;	cents/60th i	
Jun Jul	106.50 107.30	106.40 107,20	106.40 109.10	108.40 108.70		Close	Previous	High/Low	
Aura	105.70	108.90	0	0	=				
Sep	106.20	106.80	107.90	106.00	Jul Aug	714/0 688/2	705/4 683/4	715/0 689/4	704/0 681/4
Dec	103.90	105.20	106.50	104.00	Sep	650/6	653/4	655/4	648/0
-					Nov	633/6	639/0	840/0	632/0
CRUE	E OF (F)	ght) 42,000	US galls \$	/berrel	- Jen - Mer	643/2 652/6	649/6 656/4	649/) 658/)	642/0
	Lutest	Previous	High/Los	-	May	656/4	684/0	664-0	651/4 657/D
Jul	20.47	20.52	20.50	20.30		659/0	865/4	654/0	658/0
Δug	19.65	19.74	19.66	19,42	SOY	ABEAN OIL	60,000 lbs;	cents/ib	
Sep	19.15 18.80	19.29 18.95	19.25 18.96	18.99 18.65		Closa	Previous	High/Low	
Dec	18.42	18.58	18.55	18,27	Jul	21,42			
Jan	18.24	18.44	18.48	18.15	Aug	21.68	21.13 21.40	21 46 21.69	21.15 21.40
Apr	17.85	18.17	17.94	17.85	Sep	21.86	21.58	21,88	21.60
					Oct	22.05 22.38	21.67	20.07	21.78
HEAT	DIG OIL 4	5,000 US gr	ells, cents/	US galls	Dec Jan	22.55	22.11 22.20	22.39 22.58	22.12
	Lotest	Prévious	High/Los	<u> </u>	Mar	22.80	22.70	22.92	22.37 22.80
3/4	5125	5191	5165	5025	May	23.00	22.82	23.25	23.00
Aug	5155	5212	5187	5050	SOY	MEAN ME	AL 100 tons:	\$/ten	
Sep	5195 6240	5258 5318	5240	5090		Close	Previous	High/Low	
Nov	5300	5318 5378	6300 6320	5156 5210	Jul	208.5	208.7	209.5	
Jan	6360	5458	5400	5310	Aug	201.8	203.2	203.7	207.0 201.4
Feb	6300	5388	Ģ	G.	Sep	195.0	197,7	198.0	194,4
					Oct Dec	188.5 186.7	192.0 190.7	1 <u>92.0</u> 191.5	188.0
COCO	A 10 tons	es;5/tonne	:		Jan	196.5	190.5	190.5	186.5 186.0
	Close	Previous	High/Lov		Mer	185.5	190.0	189.0	185.5
Jul	1151	1140	1187	1135	May	186.2	186.5	186.5	185.C
Sep	1190	1166	1206	116D	HAIZ	E 5,000 bu	min; cents/5	61b bushel	
Dec Mer	1220 1239	1200 1228	1240 1256	1196		Close	Previous	High/Low	
May	1257	1285	1260	121 7 1228	لزبال	261/2	264/6	265/0	250/6
Jul	1273	1255	1253	1253	Sep	242/5	245/4	245/6	242/4
Sep	1298	1275	1306	1270	Dec Mar	238/4 245/4	240/4 248/4	241/2	238/0
					May	250/4	Õ	248/6 252/4	246/0 250/2
COPPL		,500 ba; cer			Jul Sep	251/0	252/8	253/4	251/0
	Close	Previous	High/Low	<u>, </u>	Dec	238/4 237/0	236/0 234/4	239/0	236/0
Jul	128.75	126.20	129.25	128.40	W0-F		min; central	237/0	254/0
Sep	124.40 122.60	121.69 119.17	124.60 122.85	121.75 119.70					
Mar	121.75	116.40	121.75	118.00		Close	Previous	High/Low	
May Jul	121.00 122.00	118.75	119.50	119.30	Jul Sep	388/2 396/0	394/5	396/0	387/4
Sep	123.00	119.75 118.60	0	0	Dec	409/6	401/4 415/6	402/4 418/0	395/0
					Mar	416/0	420/2	422/0	406/4 415/0
SUGA	7 WORLD	112.0	00 lbs; cer	tis/lbs	. May Jul	40870 37170	409/0	409/0	405/0
	Ciose	Previous	High/Lov				376/0	374/0	370/0
74	11.17	11.25	11.29		CIAE (ATTLE 40	.000 lbs; cen	ts/ibs	
Öet	11.28	11.30	11.26	10.98 11.09		Close	Previous	High/Low	
Jen	10.60	10.50	.0	0	Jun	68.82	68.97	69.22	
Mer Mey	10.97 10.95	10.97	11.00	10.78	Aug	67.87	68.10	65.47	68.8 6 67.72
Jul 7	10.90	10.97 10.91	10.99 10.80	10.78 10.84	Sep Oct	68.60 70,62	68.60	0	0
Oct	10.81	10.64	0	0	Dec	71.27	70.92 71.80	71.67 71.68	70.50
					Feb	71.30	71.90	71.55	71.20 71.00
COTT	DN 50,000	cente/ibs			Jun	70.50	70.85	70.70	70.50
	Close	Previous	High/Low	 -	LIVE !	10,00 30,00	C lb; cents/f	bs.	
Jul	63.90	65,36	65.00	83.50		Close	Previous	High/Low	
Öct	65.05	66.46	66.05	64.68	Jun	48.15			
Dec	64,70	66.65	65.86	64.56	Jul	47.20	48.75 47.87	48.55 47.85	48.00
May	66.28	67.70	67.15	66.28	Aug	45.25	45.82	45.80	47.10 45.12
Jul Oct	66.60 64.35	67.70 65.95	66.80 64.35	66.50 63.95	Oct Dec	41.95 44.20	42.37	42.35	41.87
	-1100	40.55	94.33	93.85	Feb	46.Q5	44.55 48.32	44.55	44.00
ORAN	CH ARCH	15,000 lbs			Apr	43.60	44.00	46.30 44.00	45.90
			•		Jun	47.15	47.45	47.45	43.60
	Ciose	Previous	High/Lov	<u> </u>	PORK	BELLES &	0,000 lbs; cs		47.15
'n	180.58	189.50	188.50	190.50		Close			<u> </u>
Sep Nov	178.86 164.00	183.85	189.25	178.85	.		Previous	High/Law	
Jan	159.06	167.25 182.80	166.50 161.50	164.06 158.25	lyl, Rug	30.45 30.72	32.30	32.40	30.35
Mar	158.55	162.05	160.50	168.35	Feb	47.72	32.55 49.72	32.40 ·	30.60
May	157.95	181,50	0	0	Mar	47 <u>.20</u>	49.20	49.30 49.10	47.72
Jul Sep	157.95 157.95	161,60 161,50	. 0	.0	Jul Aus	49.40	51.40	50.60	47.20 49.40
	-4-	10.40	•	•	Aug	. 46.05 .	46.60	48.60	46.05

Since Compilation High

LONDON STOCK EXCHANGE

FT-SE regains 2,100 in equity rally

THE LONDON equity market staged a successful if somewhat technical rally yesterday in the wake of the marginal recovery in Hong Kong and a steady performance from the Trading volume remained unimpressive but initial losses in the blue chip stocks inspired bargain-hunting by the big investment institutions. By the close, the FT-SE index had put on nearly nineteen FT-SK points, comfortably regaining the 2,100 mark abandoned so hastily on

Monday morning.
While the underlying implications of the turnoil in China remain disturbing for global stock markets, yesterday's

inville.

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Warnin

Accoun	t Dealing	Detec
That Dealings: May 22	Jun 5	Jan 19
Opilos Decimento Jun 1	Jan 15	Jus 29
Lest Doolinger Jun 2	Jan 16	Jan 39
Account Day: Jun 12	Jun 25	10
'Her time desit 9,00 mm inc box	nga may tako 1 Santa dayo be	place from Her
	الإستاني	

rally implied somewhat of a return to fundamentals by ana-lysis of the London equity sector. For the short term, a rally in equities is thought likely as high domestic interest rates continue to rain in consumer spending, although much depends on whether domestic rates are forced higher again

However, few trading houses were prepared to take an optimistic line yesterday morning. Share prices opened lower after market strategists at the big securities houses had rehearsed at their respective morning meetings the multiple bear factors in the market place. Market makers marked share prices lower and, in the absence of business, the loss

But few sellers could be found, and a recovery set in within a couple of hours of the market opening. The rally was cautious and thinly-supported

was extended to nearly 11 Foot-

hoped for positive signs of an easing in credit policies by the Pederal Reserve.

The market moved into plus territory at mid-session and the advance was extended as Wall Street opened higher. With nothing to upset it from the currency and domestic money markets, the equity sec-tor closed at the day's best. The FT-SE Index finished a

net 18.9 higher at 2,107.4, ending a run of five consecutive downward sessions. Seaq turn-over of 445.8m shares, against Monday's 359.2m, included a high proportion of inter mar-ket deals.

Some traders pointed to the

erratic share movements of the past two sessions as yet another example of the vagaries of post-Crash markets. Offers to sell stock on the IDB (Inter dealer broker) screens, where market makers balance their open market positions disappeared as soon as the mood brightened yesterday. Today is Derby Day, the set ting for the famous UK horse race, and some traders com-

mented that this will affect attendance in the London Although it was a calm ses sion for the pound and for London money markets, nervousness over sterling remains a

climbed another 13 to 698p.
Also on the way up were

Rolls Royce, 4 to the good at

189p, Lucas Industries, 17 bet-

189p, Lucas Industries, 17 Detter at 629p, and defence electronics specialist Dowly, which finished on 277p, a rise of 11.

Bridon firmed 8 to 208p on further vague bid speculation, while more precise talk of a takeover of the property of the precise talk of a takeover of talk of t

for Fairey Group resurface

and prompted speculative buy-ing interest. Fairey jumped 18

to 246p and Vickers improved 4 to 211p on a story that recent disposals by Sir Ron Brierley, the New Zealand entrepreneur,

as 2.8m shares changed hands.

84.43 84.68 85.43 84.43 1753.0 1737.0 1745.5 1745.6 1755.7 Ordinary Gold Mines 171.5 Ord. Di. Yield
Earning Yid %(full)
R/E Rutlo(Net)(\$2)
SEAC Bargains(5pm)
Equity Turnover(2m)1
Equity Bargains1
Shares Traded (mi)1 4.58 4.53 11.04 10.97 10.97 11.04 25.853 25,855 1429.00 1589.84 10.99 11.02 24,555 1210.80 28,511 425.0 Ordinary Store Index, Hourly chances Opening 010 am. 011 am. 012 pm. 01 pm. 02 pm. 03 pm. 04 pm. 17328 17295 17342 17378 17382 17434 17436 17490 DAY'S HIGH 1753.0 DAY'S LOW 1727.8 Basis 100 Govt. Secs 15/10/28, Fixed Int. 1928, Ordinary 1/7/25, Gold Mines 12/9/35, SE Activity 1974, ANII 10.92 rExcluding intra-market business. "June 5 opening index unavailable, not 1745.5 as stated. Corrected

(16/7/87) (28/6/40) 154.7 734.7 (17/2)(15/2/83) (26/10/71) S.E. ACTIVITY 184.7 214.5 5 - Day average Gilt Edged Bargains Equity Bargains 1125 111.2

London Report and latest

Mixed reception for Argyll

Shareholders in Safeway supermarket owner Argyll showed their disappointment with the company's announce-ment of a 35 per cent improve-ment in full year profits and the stock dipped to 2019 before closing a penny down on the day at 2040. Turnover was a busy 6.6m, including a single block of 1.2m shares.

Analysts, however, generally expressed satisfaction with the result, which was in line with forecasts. "Argyll has had a good run for four weeks and there was some profit-taking," explained Mr John Woolman of Citicorp Scrimgeour Vickers. was lower than he had expec-ted and was raising his forecast for the current year's eps from 17.1p to 17.5p. "The analysts meeting was very positive too." he added.

Mr Bill Currie, analyst with Hoare Govett, said that part of the share's weekness was due to the hope that the profits statement would be accompan ied by an announcement of cross shareholdings with Casino of France and Ahold of The Netherlands, Both ana lysts are sticking with their profits forecasts for the current year, both on £230m after exceptional items.

Wellcome hit

Wellcome were hit hard mid-way through the trading session when the rest of the market was turning higher. The stock fell to 427p before, closing 9 down on balance at 433p after turnover of 3.6m

Most marketmakers related the weakness to a report from the Fifth International Confer ence on Alds held in Montreal on a potential rival, called CD4, to Wellcome's moneyspinner

Retrovir. However analysts were unperturbed by the news, pointing out that the report said only that the trip was safe, not that it helped Aids sufferers. One leading analyst even suggested that the next stage was to test CD4 in combi-nation with Retrovir "which would be positive for both com-

Agency broker James Capel said that a market suggestion that it had bought a large number of Wellcome put options was completely untrue. The most convincing reason of the day for the setback came from one analyst who said that the

fall was triggered when a singie buyer sold a large line of stock. A string of six 100,000 share deals was registered on the Seaq ticker within a hectic 15 minutes around lunchtime.

Property view

A financial commentator's view that the prospective dis-counts to asset value for most property companies are too large, putting the sector on the lowest rating for 15 years, caught the market offguard yesterday. The author nomi nated sector leader Land Securitles, with a prospective discount to asset value of 50 per cent, as the best example of the step too far.

The response was immediate. An initial flurry of traded options activity had marketmakers chasing round for stock of Land Securities and the shares bounded to 567p for a rise on the session of 18. Institutional operators were

The tensions overhanging London stocks with exposure in the Far East eased some-what following the steadler trend in the Hong Kong stock market, which rallied stock market, which rallied by 2.7 per cent overnight after Monday's heavy fall. However, Cable & Wire-less, the telecoms group, con-tinued their roller-coaster ride. After opening lower around 435p, the price recov-ered on the back of US buy-ing, and closed 15 ahead at 465n. Dealers said there were . Dealers said there were

panese interests. Standard Chartered settled a fraction off at 506p and Time Products lost a further

still no signs of selling by

slow to respond but private investors warmed to a whole range of property stocks, many of which recorded the largest rises for some time. Insurances were the scene of some active trading. Composites attracted keen interest, with General Accident upset by talk of a possible rights issue and news of dreadful figures from the Bank of New

Zealand; GA has a 52 per cent stake in the troubled NZL But dealers remained positive on the stock and the price rallied

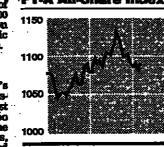
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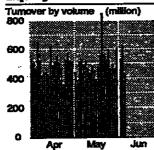
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FT-A Ali-Share index





from 930p to close a net 5 off at 944p on turnover of 1.4m. Guardian Royal Exchange also featured, the shares easing to 200p amid whispers of an immibefore steadying to close 2 down at 202p on 2.8m. Sus-tained buying lifted Sun Ali-ance 23 to 1091p with the market picking up suggestions that America's Chubb had moved to increase its shareholding, last revealed as 7 per cent.

An industry report that Mr John Elliott's Elders IXL may have found buyers for part or the whole of the 23.6 per cent stake in Scottish & Newcastle aroused speculation and the shares gained surged 10 to 313p. Elders has been ordered to reduce the holding to below 10 per cent within the next twelve months. Regional brewer Marston Thompson went higher after a property revaluation. Ladbroke regained ground to close 17

earer at 585p. Building issues staged a strong recovery after early weakness. The heavy end of the sector responded to some talk of a stock abortage. RMC, in particular, rose 13 to 740p while Rugby added 6 at 205p.

NEW HIGHS AND LOWS FOR 1989

APPOINTMENTS

group. He was techno-commercial manager for the group in Birmingham.

■ ALPHAMERIC has appointed Dr Donald Spencer as a non-executive director. He is deputy non-executive

■ HADLEIGH INDUSTRIES
has appointed Mr Freddie Fand as group deputy chairman, and managing director of its automotive division. He was with Tiphook.

■ BERNSTEIN GROUP has appointed Mr Jim Stott as managing director.

Mr Ken Edwards has been appointed national sales manager, HILL SAMUEL PROFESSIONAL ADVISER

■ Mr Niels Krik Seest has been appointed managing director of BALTICA-SKANDINAVIA INSURANCE CO (U.K.). He was assistant general manage was assistant general manage of Copenhagen Re, Denmark, and succeeds Mr W.R. Berry who has resigned but remains a consultant.

■ Mr Heikki Mairinoja has been apppointed president (chairman) of UPONOR, Leeds a subsidiary of Uponor Group, Finland. He was executive vice president (deputy chairman), and succeeds Mr Heimo Eloranta, who remains on the board, and has been appointed a deputy member of the board of Asko Oy, Uponor's parent company.

Magnet, ahead of Friday's clos-Hawker Siddeley was one of the top performers, jumping 22 ing date for the MBO, jumped 9 shares. British Aerospace showed no sign of easing back on its recent strength and

more to 283p. Marshalls were 6 ahead at 274p after preliminary figures
- showing pre-tax profits up
from £13.12m to £25.03m described as "super" by dealers. But there were plenty of sellers in Anglia Secure Homes which revealed interim profits of £2.76m compared with \$2.41m. Dealers said the figures were "no more than average, and said there were worie about the second half and future profits. Mr Richard Hopewell, building analyst at Swiss Bank Stockbroking, is forecasting pre-tax profits of 26m for the full year, but rec-ommends a switch to other

The early action in stores

was concentrated in Store-house, shares of which fell were a prelude to raising his 8.67 per cent stake in the comaway to 148p following a single trade of 2.6m shares, inter-preted by the market as possi-The Foods sector was stimulated by news of the purchase by BSN of France of parts of hly the sale of a chunk of the shares by Mr Asher Edelman. RJR Nabisco's European But further trades reported on the seaq ticker revealed that the trade was nothing more operations for around \$2.5bn. United Biscuits was the main beneficiary. It was said to have than a "bed and breakfast" been in the running for parts of the Nabisco empire and deal and Storehouse shares subsequently rallied to end the session a net 2 higher at 155p; turnover finally reached 8.3m. there was some relief that it would not have to find the cash, perhaps through a rights Ward White gained 5 more to issue, to pay for them. Such sentiment also helped 301p, still stimulated by stories that Mr Edelman, the US arbi-

Such sentiment also hereous RHM, 7 better at 442p, and Unilever, 5 to the good at 545p, and Cadbury Schweppes which closed at 352p, up 3 on the day. "The Food sector is a sellers market again," said one dealer, adding, "there are plenty of traguer, had quietly accumu-lated a near disclosable stake. Lambert Howarth shares plummeted 39 to 177p, after 165p, as the bid from Peter Black lapsed. adding, "there are plent unsatisfied buyers around." British Telecom continued to Unigate was another strong performer, climbing 10 to 390p

attract plenty of buying interest triggered by switching out of the highly vulnerable Cable & Wireless; BT shares eventu-ally settled a net 5% stronger proving to Sm. "It was the obvious switch," said one ana-lyst who added that BT "anyway displays traditional desen-aive qualities.

The Racal pair, Electronics

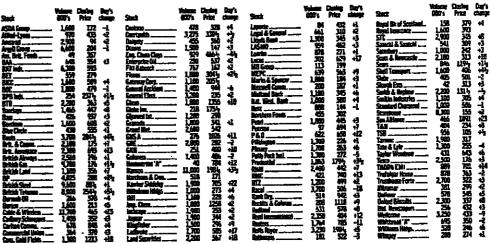
and Telecom, were hit by what marketmakers described as "a marketmakers described as "a bit more than plain and simple profit-taking." Dealers noted growing selling pressure from US operators, previously seen as big bulls of the shares, and took the view that a large institutional selling order had probably been carried out. Electronics lost 18 to 506p on turnover of 4.2m while Telecom dipped 11 to 4900.

11 to 490p. Ferranti fell back to close 1 easier at 97%p, after 97p, on turnover of 2.6m shares following a further downgrading by Kleinwort Benson, the securi-Mismwort Benson, the securi-ties house. Mr Christopher Tucker lowered his forecast of current year pre-tax profits to £33m, "largely as a result of the impact of higher interest

The prospect of sales at the Paris Air Show, which starts at the end of the week, helped shares of companies in, or with

TRADING VOLUME IN MAJOR STOCKS

FINANCIAL TIMES STOCK INDICES



"It looks like Mr Goodman's at it again," said a dealer, refer ring to Mr Larry Goodman, the lrish entrepreneur, who holds

Full-year profits down 50 per cent and well below expecta-tions knocked De La Rue down to 288p before thoughts of a bid from either Mr Robert Maxwell or Mr Carlo de Benedetti, prompted speculative buying. The shares then rallied smartly to close up 5 on the dy at 315p.

Approval of the purchase of
Independent Television Publications for £113m put Reed International up 12 to 404p while hopes of predatory interest by Sir James Goldsmith

raised DRG 16 to 506p. News of Great Portland's good preliminary statement and intention to maintain the

dividend payment after a one for-five scrip issue set the seal on a good day for properties. Great Portland rose 6 to 370p and more sizeable gains occurred in stocks recognised as possible bid targets such as Greycoat (up 18 at 490p) and Laing (13 better at 530p). Dou-bled profits lifted Rowlinson 30 to 250p while Regalian went 10 higher to 123p ahead of Wednesday's annual results.

The surprise announcement that the Grace-Pinto concert party had built up a stake of 5.68 per cent in TR Technology encouraged support for the shares which closed 7 up at

monwealth managed a rally of 7 to 175p following the pro-posed sale of its freehold inter-est and of a major share of the

rental income in Cayzer House in London

British Gas headed the turnover list in the energy sector. The shares were well supported and finally 1% ahead at 176p in front of Thursday's pre liminary figures; analysts at Kleinwort Benson are forecasting a net dividend of 9p — the top end of the range - and rate the shares a buy. Dealers said there had also been persis tent overseas support for the

Premier raced up 4 to 1011/20 after the preliminary figures and news of the encouraging gas discovery in the Southern Basin in the North Sea.

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Group managing director of Airlines of Britain

■ AIRLINES OF BRITAIN HOLDINGS (British Midland Airways, Manx Airlines, Alrways, mall London City
Alrways) has appointed Mr.
John Wolfe as group managing
director, and Mr. Austin Reid
director, and Mr. Austin Reid as managing director of British Midland Airways. Mr Wolfe is a shareholder of the BBW Partnership, ultimate holding company of the group, and Mr Reld is group finance director, a post he retains.

■ BIMEC INDUSTRIES has appointed Mr Roger Derwent to the new post of financial director - operations, and to the group operations board.

■ Mr J.A. Nightingale, a non-executive director of Courtaulds, will not be seeking re-election at the annual meeting in July following his appointment as executive chairman of the Apparel, Knitting and Textiles Alliance.

■ CHARTERHOUSE TILNEY, agency stockbroking arm of Charterhouse, has made the following appointments: Mr Robert Jackson (director, corporate finance), Mr Michael Polnik (director, institutional sales); lifr Giles Warman director, European sales); Mr Jeremy McKeown and Mr Kurt Mayer (assistant directors, institutional sales). In Liverpool: Mr Jeffrey Whitfield

(Afrector, Compilate), and Mr Peter English (director, information services), and Mr Michael Walsh-Clayton (assistant director, finance).

ZURICH INSURANCE has appointed Mr Dennis White as chief executive for the UK and Ireland from August 1, and as managing director of Zurich Life. He is managing director of the reinsurance and marine division of London and Edinburgh Insurance Group, and will succeed Mr Frank Hall who is retiring, but who director of Zurich Life.

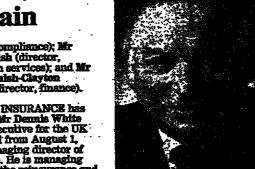
🕦 Mr John Rathbone bas been appointed group finance director of the TARGET GROUP, in addition to his post as appointed actuary of Target Life Assurance Co.

■ Mr Gerry Robinson, chief executive of Compass Group, has been appointed a non-executive director of MOLYNX HOLDINGS.

THE LEWIS'S GROUP. Salford, has appointed Ms Anita Walker as marketing director. She was managing director of Schofields, Leeds.

Mr Robert L. Johnson has

been appointed chairman and chief executive officer of Price & Pierce International Inc., a



wholly-owned subsidiary of PRICE & PIERCE GROUP.

■ Mr R.B. Pointon, operations director of IMI Yorkshire Fittings, has been appointed managing director in succession to Mr P.C. Roberts, now an executive director of parent company, IMI. Mr Pointon also assumes responsibility for Raccord Orleanais, France, and R. Woeste & Co "Yorkshire", West Germany, Mr A.N. Morris has been appointed president of Norgren Martonair (Canada) Inc, part of IMI fluid power



Mr Paul Lever (above) has been appointed executive chairman of SPONG HOLD-INGS, succeeding Mr Stephen Barclay who becomes business development director. Mr Lever was managing director of Crown Berger Europe, paints division of Williams Holdings.

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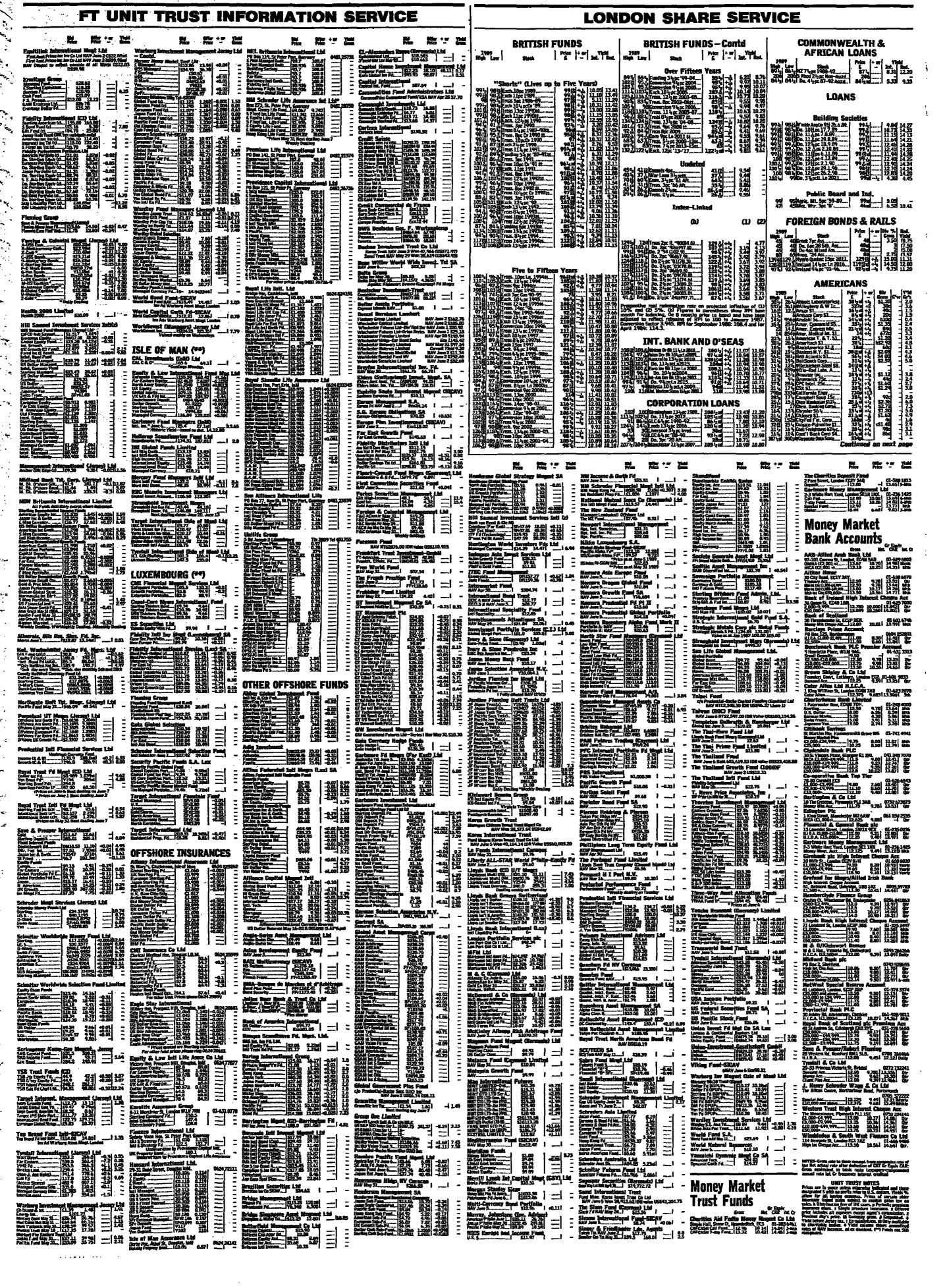
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CURRENCIES, MONEY AND CAPITAL MARKETS

when overseas holders of ster-

ling are worrying about the

course of UK economic policy.

The pound's exchange rate index finished unchanged from

Monday's at 92.1, having

opened at 91.9. Against the dol-lar, sterling fell to \$1.5695 from

\$1.5815, but it was unchanged

in D-Mark terms at DM3.1025.

It was slightly weaker against

the yen at Y224.25 from Y224.50

and finished elsewhere at SFr2.6900 from SFr2.6825 and FFr10.5500 compared with

The Spanish peseta showed a

muted reaction to the announcement that it is to join

the exchange rate mechanism of the European Monetary Sys

tem before July 1990. The Spanish authorities are seek-

ing a wider fluctuation band

than the normal 2.25 per cent and will probably settle for the 6 per cent applied to the Italian lira. The US dollar was fixed at

Pta129.066 in Madrid, up from

Pta124.65 at the close in London on Monday, and the Bank

of Spain sold a nominal \$19.9m

at the fixing.

EMS EUROPEAN CURRENCY UNIT RATES

POUND SPOT- FORWARD AGAINST THE POUND

DOLLAR SPOT- FORWARD AGAINST THE DOLLAR

EURO-CURRENCY INTEREST RATES

191167-68188-589 191167-68188-589 19168-68188-589

Long term Eurodolius: two years 91g-81g per cent; three years 91g-81g per cent; four years 9-81g per cent; fine ars 9-81g per cent nomiced. Short term rates are call for US Dellars and Lacanese Year others, two dates' antice

EXCHANGE CROSS RATES

224.3 10.550 2.690 143.0 6.724 1.714

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10. 3.922

3.016 4.674

5.609 16_18

64.12 99.38

119.2 344.0

3.103 1.978

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2941 1154

1.650 4.759

Close

15690 - 15700 13490 - 13500 12010 - 12220 22280 - 22290 4150 - 4160 7714 - 7714 19765 - 19775 165 - 1654 128.40 - 128.50 14574 - 14384

t UK and Ireland are quoted in US correscy. Forward premiums and discounts apply to the US included correscy. Belgian rate is for convertible frames. Flaguetal frame 41-55-41.65.

One worth

0.58-0.55cpm 0.27-0.16cpm 21-13-cpm 32-29cpm

4.32 -1.38 -2.90 2.52 1.06 1.05 -2.87 -5.80 -4.67 -3.11

141-14/ 95-94 12-114 74-7 72-73 84-84 125-117 84-84 85-84 95-84 95-94 95-94

F Fr. S Fr. H FL Ling

0.867 11.99

2550 1

0.769 1.192

1.430 4.126

3.498 2.229

1.127 15.60

3.316 1.300

1 1.550

1.860 5.365

FOREIGN EXCHANGES

Dollar retains firm undertone

don, the US unit closed at

DM1.9770 against DM1.9625 and

Y142.90 compared with Y141.85. Elsewhere, it finished at SF1.7140 from SF11.6955 and

FFr6.7225 against FFr6.6650. On

Bank of England figures, the

dollar's exchange rate index rose from 71.5 to 72.2. Sterling ended on a steadier

note, having fluctuated sharply

during the morning. Investors

expected a renewed assault on the DM3.10 level, with sterling

sentiment remaining extremely depressed. But its early fall

was mainly a dollar movement,

and by mid-morning the pound

was showing a modest improvement against its Euro-

despite the steadier tone and

sterling's fragile recovery could be compromised by a

poor reaction to the economic debate due to take place in the

House of Commons today. Investors will be looking for

renewed signs of the Govern-

ment's determination to bear

down on inflation at a time

42,4582 7,85212 2,05853 6 90403 2,31943 0,768411 1483,58

hanges are for Ecu, therefore positive change in ideasment calculated by Figureial Times.

1.9585 - 1.5715 1.3410 - 1.3515 1.2000 - 1.2050 2.2260 - 2.2455 41.35 - 41.80 7.70 - 7.76 1.9750 - 1.9930 165 - 1654 125.95 - 129.25

Jam 6

Traders remain cautious

pean partners.

Belgian Franc ... Danish Krore ... German D-Alark French Franc ... Dutch Guilder ... Irish Pumt Italian Lira

June 6

THE DOLLAR failed to break from its earlier lows. In Lonthrough resistance at DM1.9940 in currency markets yesterday and fell back to finish in the middle of the day's narrow range. But it was still up from overnight levels, underpinned by its status as a safe haven for investors while the unrest in China continues.

The US unit opened at DM1.9930 - which proved to be the day's high - as investors sought to cover positions in anticipation of a break through the DM2.00 level. But demand for the dollar was relatively modest in comparison with the buying seen on Monday. Never-theless, there seems to be little chance of the dollar moving much lower while the tension in China remains.

The cut in US prime rates on Monday has so far failed to have much of an impact on the dollar. Investors are awaiting firm evidence after indications that the US Federal Reserve may have relaxed its monetary stance, and many may prefer to wait until Friday and the release on US producer prices for May. Most forecasters are looking for a rise of 0.5 per cent to give a year-on-year rise

of just under six per cent. Early trading in New York saw the dollar lose ground on reports that the Fed had been selling dollars for yen and D-Marks, but it soon recovered

£ IN NEW YORK June 6

3 months 1.78-1.75pm 1.82-1.79pm 1.82-1.79pm 6.72-6.62pm										
Forecard premiums and discounts apply to the US dollar										
STERLING INDEX										
	_ J¤	e 6 Previous								
8.30 am 9.00 am 10.00 am	92	19 92.6 20 92.6 12 92.5								

CURRENCY RATES

pen pen pen

June 6	Bank rate %	Special* Drawing Rights	European Currency Veit.
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'All SDR rate	are for J	JRE 5	

'All SDR rates are for June 5									
CURRENCY MOVEMENTS									
June 6 Bank of Morgan ²⁰ England Garanty Changes %									
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1985 = 100i**Rates are for Jame 5 .									
OTHER CURRENCIES									
Jest 6	Jenz 6 E S								
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MONEY MARKETS

UK clearing bank base lending rate

14 per cent from May 24

day, and three-month money

per cent, the same as Monday's The Bank of England fore-

cast a flat liquidity position.

Factors affecting the market

included bills maturing in offi-

cial hands and a take up of

Treasury bills, together with

repayment of any late assis-

tance draining £258m. In addi-

tion, banks brought forward

balances £120m below target. These were offset by Exche-

quer transactions which added

£290m, and a fall in the note

circulation of £75m. The forecast was revised to a shortage of around £100m, but the Bank

gave no assistance in the

Steady but nervous UK RATES retreated from a firmer start in London yesterday as sterling finished on a steady note. Three-month interbank money was marked up to 14%-14% per cent at the outset, with many traders appeting a further any crypton. Some traders have taken this as a signal that the Fed is eas-

0.637

0.506 6.995

0.449 0.887 1.375

0.834 2.406

ing its monetary policy, while others remain cautious. In Frankfurt, the Bundes-bank announced its intention to hold a sale and repurchas tender with no minimum bid. Successful applicants for the expecting a further run on the pound after its break below DM3.10 on Monday.

However, sterling finished virtually unchanged on the 35-day facility receive their allocations today, coinciding with a maturing agreement which will drain DM12.1bn

from the system. Short term interest rates remained firm as commercial banks sought funds to meet a large tax payment deadline.
Call money was quoted at 6.50
per cent, the same as the Lombard rate. Commercial banks continue to borrow heavily through their Lombard facility; over DM2.5bn was borrowed on Monday following loans of DM2.9bn on Friday. The Bundesbank is expected to make conditions easier by allocating

chase agreement takes out. In Zurich, the Swiss National Bank set the Lombard rate at 7% per cent from 8% per cent on Monday. The rate has now been reduced from a peak of 9½ per cent on Friday and fol-lows a half point reduction in time deposit rates announced

more than the maturing repur-

FINANCIAL FUTURES

Prices recover after weak start

SHORT STERLING futures recovered from a sharply weaker start in Liffe trading yesterday to finish two ticks up from Monday's close. Val-nes were marked down initially in anticipation of another sterling slide, but as the pound showed signs of steadying so prices recovered. From an opening level of 85.85, the September contract moved up to touch a best level of 86.00. It closed at 85.97 compared with 85.95 previously. Trading vol-

and the September price slipped to 92-19 from 92-22 on Monday.

LIFFE LONG GELT PUTURES OFTIONS PER SERVICE LIBERTY SERVICE SE **海发验及增加交叉** 9554XXXXXX

LIFFE EUROGELLAR OPTIONS Classificials of 180% Pats-9 Jun 0 8 95 389 845 18 81 243 536 940 1180 680 254 48 1180 684 346 139

LONDON (LIFFE) Close High Low Pres. 91-16 91-25 91-16 91-19 92-19 92-31 92-18 92-22 Estimated Volume 15567 (19537) Previous day's open Int. 25940 (27552)

7-10 YEAR 9% HOTEMAL GR.T 550,000 52mb of 100% ated Volume 2709 (4778) No day's open lat. 6,365 (6,217)

4.55 4.79 4.67 4.67 -1.39 5.17 2.81 6.32 6.32

4.55 -0.30 -2.80 2.02 -0.67 -2.30 -5.92 -4.98

One Year

144-14 94-94 114-114 774-76 76-812 83-84 84-84 54-94

0.606 21.01 8.386 290.7

1.783 0.699

645.2 1000.

2.70-3.00ds 0.90-0.80pm 3.25-3.50ds 1.53-1.51pm 8.00-5.00pm 0.76-0.71pm

144-144 94-94 114-114 74-74 75-74 85-84 124-12 85-84 94-94 94-94

93.53 93.38 93.21 Close High Low Pres. 104.50 104.55 104.43 104.56 103.60 103.45 103.50 103.72

5.64 5.77 86.62 87.31 90.70 91.19 91.30 91.43 High 90.73 91.25 91.35 91.45 Pres. 90.73 91.29 91.36 91.46 Est. Vol. (Inc. figs. not shown) 7483 (9511) Previous day's ages lat. 64265 (64679)

High 95.05 92.85 92.86 92.92 92.92 92.71 92.75 92.85 Clase High Low Pres. 211.40 211.40 208.60 210.35 215.85 215.50 213.30 214.90 ted Volume 4379 (4622) s day's open lat., 20957 (2010) POURS (FEREIGN EXCHANGE Spot 1.5695 1-mth. 3-mth. 6-mth. 12-mth. 1-5638 1-5516 1-5332 1-5035

High 1.5654 1.5476 1.5280

Low Pres. 1.5616 1.5646 1.5410 1.5458 1.5250 1.5278

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FT LONDON INTERBANK FIXING é pageths US Dollars The fixing rates are the arithmetic means rounded to the nearest one-statement, of the bid and offered rates for \$10m quotes by the market to five reference hanks at \$1.00 a.m. each working day. The banks are Rational Westmissize Bank, Bank of Totyo, Devisiche Bank, Bank of Totyo, Devision Banks, Banks of Totyo, Devision Banks, Banks

MONEY RATES NEW YORK Treasury Bills and Bonds Lunchtime June 6 6.85-7.00 84-83 74-74 7.25-7.35 53-5-1 121-13 84-84 94-95 138 7.25 : :

LONDON MONEY RATES								
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count Mict Deps	1 :	131	134 134 134 138 147 9.50-9.45	8.3	138 144 131 135 915-910	13H 14 9.07-9.02		
R Linked Dep Bid V Linked Dep Offer V Linked Dep Bid	[:	:	84 84	84 94 81	914	84 94 94		
Treasury Bills (sell); -month 1312 per cer	one-moath it; three mo	1343 per ce nths 1343 p	nt; three mor	nths 13 & pe easury Bills;	r cent; Bani Average to	Bills (selD:		

through DM2.00. But the US ume was again brisk with over 31,000 lots changing hands. unit stayed below this psychologicaly important level, Long gilt futures recorded around half the volume seen in enabling values to recover from the weaker start to finish short sterling, and ended on a slightly weaker note. Investors unchanged from Monday's continue to show their concern about sterling's vulnerability, US Treasury bonds traded

quietly and finished on a

lightly softer note. However,

values were marked up later in US trading as short term inter-

est rates were allowed to

West German bond futures opened 17 ticks down in the September contract on fears that the dollar would break

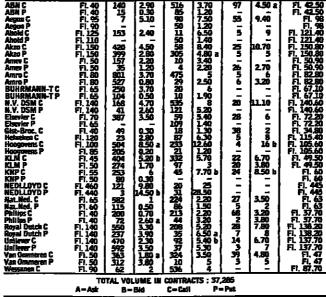
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LIFFE SHORT STERLING 9trike Prior 8525 8560 8575 8600 8625 8650 8675

CHICAGO JAPANESE YEK ODA Y12.5m \$ per Y190

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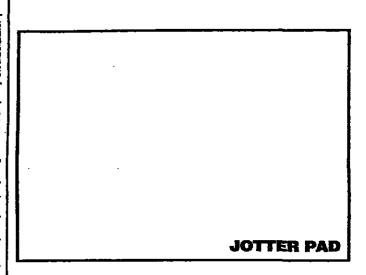
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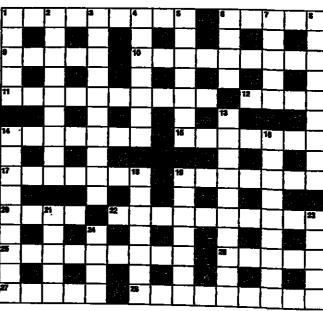
I.G INDEX LTD, 9-11 GROSVENOR GARDENS, LONDON SW1W OBD Tel: 01-828 7233/5699 An AFBD member Reuters Code: IGIN, IGIO FT 30 WALL STREET
Jun. 1755/1764 +27 Jun. 2111/2121 +32 Jun. 2496/2508 +16
Sep. 1792/1801 +25 Sep. 2155/2165 +30 Sep. 2530/2542 +16

Prices taken at 5pm and change is from previous close at 9pm



CROSSWORD

No.6,953 Set by GRIFFIN



1 Back row put in a different

order (9)
6 iron cupboard (5)
9 One reckoning to retire with
100 to score (5)

100 to score (5)
10 Badly trained mum admitted being dull (9)
11 Are about to ring Naples, perhaps; they fly there (10)
12 Lady teacher, first person to retire (4)
14 Preacher you can make a monkey out of? (7)
15 Twister split before the fuss (7)

17 Prayers for a Scotsman the Spanish imprisoned (7) 19 Sees bld is ridiculous, more-

over (7) 20 No approval for retreat (4) 22 A person with lots to sell (10)

25 is not backing Heather's entry for a London borough 26 Lies about the streets (5)
27 Bring some beef, etc., however expensive (5)
28 In a cathedral city ten called

agitatedly (9)

4 Stupid man can't use switch 5 Serious love leaves one in tears, trembling (7)
6 Taking one into one's home was profitable (4)
7 Number three is wrong (5) 8 Team displays seen at fairs

13 Noble actor is playing with 13 Nobie actor is playing with a rodent (10)
14 He has a suit to press (9)
16 Groom entered, dead drunk, when spoken to (9)
18 Give up writing odd clues about races (7)
19 Relating to plants taken round to cabin (7)
21 A little hooter (5)

21 A little hooter (5)
23 Dangerous kris wielded by youth leader (5)
24 Creep home before church



Solution to Puzzle No.6,952

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HOTES— Prices on this page are as quotief on the individual exchanges and are last traded prices. (d) unamediate, if Destings aspended. as Ex debited, as Ex sario issue, ar Ex rights. as Ex deli.

WORLD STOCK MARKETS

: Ten Seys

Chique Press, Green Press, Gree

3pm prices June 6

NEW YORK STOCK EXCHANGE COMPOSITE PRICES

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13 Month

13 Month

14 Month

15 Month

16 Month

17 Month

17 Month

18 Mon 12 Month
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Nasdaq national market, 3pm prices June 6

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Equities advance as monetary policy eases

IN A market which is increasingly subject to wide swings due to waves of futures-related selling of the Standard & Poor's 500, stocks yesterday rebounded from Monday's sharp loss which had been almost entirely due to programme trades, writes Janet Bush in New York.

The Dow Jones Industrial Average swung in both directions but ended 15.62 points higher at 2,496.32 on active volume of 187m shares.

There were various positive factors around for stocks yes-terday including a higher dollar, higher bonds and clear eral Reserve has eased mone-tary policy by lowering its tar-get for Fed Funds by about ¼ point

However, all these factors were more or less present on Monday when the Dow fell more than 37 points. The only difference between Monday and yesterday was that the easing was widely assumed to be taking place on the former and confirmed on the latter.

This market is mostly concerned about its own technical sition in the vicinity of 2,500 on the Dow and about the strength of cash flow into the market. There are hopes that many institutions, who have been holding large cash posistocks weighting by the end of

Among featured issues yesterday was Time Inc, which jumped \$3% to \$126%, after a US press report that Paramount Communications, formerly Gulf & Western, is considering whether to launch a takeover bid for the company and that it will decide soon

said that it expected to go through with its merger with Warner Communications. American Cyanamid fell \$2% to \$53%. At least two large brokers have lowered their earnings estimates for the company after its agreement to acquire Praxis Biologics for stock val-ued at \$14 a share.

whether to proceed with a bid.

Paramount refused to com-

ment on the report and Time

RJR Holdings preferred stock, very actively traded on the NYSE, was up \$% at \$22% after RJR Nabisco, the company's principal subsidiary, agreed to sell five European food subsidiaries to BSN of

Nike, the sports shoes mannfacturer, jumped \$2% on the OTC market to \$42%, its highest level in a year. The com-pany said it could not explain

the stock's recent strength.
Also on the OTC, Novell
added \$% to \$34% after the company said its net income for the fiscal second quarter ended April 29 was in line with expectations. Its main competi-tor, 3Com, gained \$% to \$20% having slumped \$1% on Mon-day due to a forecast of lower

than expected fiscal fourth quarter sales. Pyramid Tech-nology slumped \$3% to \$9% on the OTC market after the company said it may report a loss in its latest quarter ending this month.

Among blue chip issues, IBM was up \$% at \$109%, Merck added \$% to \$71%, and Philip Morris rose \$% to \$140%.

PRECIOUS METALS led the advance as Toronto share prices closed with a solid gain

in active trading.

The composite index added 85.10 to 3,757.2 as advances outnumbered declines 432 to 255. Volume rose to 31.18m shares

Mixed trading focuses on individual stocks

selective stocks and sectors in a rather nervous Europe yes-terday, with further profit-tak-ing but plenty of buying as well, writes Our Markets Staff.

FRANKFURT had a quieter day than of late, with further profit-taking after the spate of records for the year. A sharply higher dollar caused some confusion about the outlook for domestic interest rates and events in China cast a slight shadow, because some German companies such as VW have interests there.

Wall Street's overnight setback also had an effect, but the easier tone was seen as an understandable consolidation. We've got 600 (on the FAZ) just in sight and there's bound to be a certain amount of nervousness in advance of that,"

The FAZ was off 5.56 at 589.93 after reaching a 1989 record on each of the past five trading days, while the DAX lost 5.35 to 1,413.78. Volume d to DM4.74bn, active but well below Monday's DM7bn. Construction stock Holz-

falling DM42 to DM928 following a market rumour, denied by Deutsche Bank, that the bank had sold its roughly 35 per cent stake. Holzmann stock was said to be difficult to buy, even at these lower levels, which still leave it about 60 per

cent up on the year.

PARIS relied on food group BSN to provide the excite in a generally uninteresting day. BSN shares jumped and then fell after news that the company had bought five European businesses from RJR Nabisco of the US for \$2.5bn. One analyst said BSN had been "bumbling along quite steadily when out came the news and suddenly the price exploded."

It moved from a high of FFr741 to end at its low of FFr691, a drop of FFr23 or 3.2 per cent on its previous close. Investors speculated the com-pany would need to make a

fairly large cash call or sell another business to pay for the Volume of shares traded in BSN, which had been moderate before the news, shot up to 315,740 afterwards, making it

This helped boost French turn-over to an estimated FFr3bn, compared with the previous day's FFr2.21bn. The CAC General index

eased 2.6 from its record level on Monday to 483.3. The OMF 50 index fell 1.34 to 503.83 and the CAC 40 index lost 9.07 to

MILAN rose in a busy session, with the focus on bank stocks. The Comit index gained 2.12 to 619.18. The suspension from trading, imposed on May 30, of two banks was lifted. Nuovo Banco Ambrosiano, off L104 at L3,495, and Banca Cattolica del Veneto, L51 higher at L6,500, announced details of their

amounced details of their merger plan on Monday.

AMSTERDAM remained fairly active, closing higher after recovering from early falls induced by the rise in the dollar and losses in the Dutch

bond market.
The CBS tendency index gained 1.0 to 183.3 as bonds recovered. Volume of FI 838.5m was similar to Monday's and 10 before the news, shot up to 315,740 afterwards, making it one of the most active stocks. per cent of it, or 1.4m shares, was accounted for by trading in newly listed Daf, which ended off 20 cents at Fl 58.10. Royal Dutch was the most ctive stock, rising FI 1.50 to FI 138.20 on the dollar's strength. Financials did well, with insurer Amev up 90 cents at F1 50.90 in active trading and Amro Bank gaining F1 1.80 to

ZURICH also attracted buyers after falling initially in response to Wall Street's over-night loss, and shares ended ittle changed in moderate trading. The Crédit Suisse index edged 0.4 higher to 575.4.

MADRID had another dull day, with the general index easing 0.24 to 309.15 in turnover put at more than \$100m. Telefonica was steady at 191.7 per cent of par after

reporting an 8 per cent rise in first quarter net profits, seen OSLO found few domestic factors to influence the market and closed mostly lower as investors throughout Scandinavia held back amid the deepen-

ing crisis in China.
The all-share index fell 4.22 to 488.15 in thin trading worth NKr241m. Den Norske Credit-bank, Norway's second biggest after good foreign exchange reserve and trade figures. The stock exchange index advanced

A strong dollar supported the shipping sector, which also gained from high transport prices and international interest. The market is generally very firm with quite a lot of liquidity and underlying strength from the main ship-ping stocks," an analyst said. BRUSSELS closed mainly down in moderate trading with most interest focused on steel

Clabecq soared BFr240 to BFr3,030 on a turnover while Luxembourg-based Arbed climbed BFr440 to BFr6,540 and Cockerill firmed BFr8 to

STOCKHOLM edged lower in

SOUTH AFRICA

GOLD shares were mixed in Johannesburg, with prices drifting around Monday's lev-els in cautious trading. Rand-fontein lost R2 to R185 but Vaal Reefs rose R2.50 to R302.

after announcing a return to profit in the first four months. COPENHAGEN climbed to record levels again, led by strong gains in shipping shares

25 to 315.23.

companies Clabecq, Arbed and Cockerill which are expected to produce good results.

relatively slow, nervous trad-ing. The Affarsvärlden General Index shed 46 to 1,171.3.

maker, which was popular on Monday, lost favour and fell Y40 to Y2.270 in active trading. integrated chemical maker,

ASIA PACIFIC

Nikkei declines as bargain hunters lift Hong Kong

Tokyo

THE STEEP decline on Wall Street gave Tokyo another bout of the fitters and share prices moved erratically throughout the day to close down modestly in very thin volume, writes Michigo Naka-

moto in Tokyo.

The Nikkel average opened sharply lower as the fall on Wall Street dampened investor interest. Although midday buying by investment trusts supported the market at lower levels, the uptrend was short-lived and the Nikkei average closed down 5.07 at 83,452.01.

The day's high was 33,574.36 while the low was 33,247.73. while the low was 33,247.73. Declines outnumbered gains by 556 to 335 with 192 issues unchanged. Volume remained low at 567m shares, although up on Monday's 489m. The Topix index of all listed shares fell 3.99 to 2,482.58, while in London the ISE/Nikkei 50 index fell 1.91 to 1,979.37.

The market showed signs of psychological vulnerability in the face of a substantial over-night fall on Wall Street and uncertainty about the yen's fate on currency markets. Although analysts contend that international events are no longer much of a force on the market, their impact could not be ignored as they affected currency moves which in turn hit the market. The yen's drop came at a time when investors were just beginning to feel the currency markets had finally stabilised.

During the day, buying from investment trusts and arbitrage between the cash and futures markets helped lift the market. Investors, however, generally remained unwilling to take an active part in the market, as reflected by the pathetically low turnover. There was a notable lack of direction as external events made it difficult to focus atten-

tion on specific theme Issues with specific incentives were favoured while those related to the environ-ment theme were mixed. Ebara, an industrial machinery

THE BELEAGUERED Hong Kong stock market found some buying support yesterday, as bargain hunters pashed the Hang Seng index up by 56.1 points, or 2.68 per cent, to end at 2,149.71, writes Michael Marray in Hong Kong. The territory was awash with rumours during the day, mostly centred upon reports of clashes between troop units in Peking. Many investors sought trading profits when prices rose and fell as the news spread into the market.

Prokers said buying was

Brokers said buying was mostly from locals, with inter-national investors still cau-

national investors still cau-tious and generally preferring to stay on the sidelines.

The Hongkong Bank inter-vened lightly during the day, buying up bine chips as it did during Monday's 581.77 point

Snowball, assistant director for south-east Asian equities at County NatWest. Until events in China reacted some sort of conclusion, the market would continue to fluctuate. he added. Another broker with a Brit-

ish securities house commented: "We are awaiting the next joit from China, and that could be a jolt upwards or

Turnover stood at HK\$2.0bm compared with Monday's HE\$2.25bn. The Hang Seng index has now fallen by 36.12 per cent since panic first set in on May 19, just before the martial law declaration in Peking. It is back to levels last seen in December 1987 in the wake of the global equities crash of October that year.

surged Y108 to Y1.010 on news that the company had jointly developed a new zeolite-based catalyst for dissolving chloro-fluorocarbons. Tosoh was second most actively traded with

15.3m shares. Tosoh's strength spilled over Toson's strength spilled over to Japan Organo, the country's largest maker of water treatment equipment, which was considered an environment-protection issue. Japan Organo closed up Y90 at Y1,320 in active trading.

The renewed weakness of the yen against the dollar dealt

The renewed weakness of the yen against the dollar dealt a blow to steel issues during the day but later buying on lower prices helped some of them recover by the close. Nippon Steel fell Y13 to a low of Y851 but managed to close with a loss of just Y7 to Y857. In Osaka the OSE average dropped 178.29 to 32.414.18 dropped 178.29 to 32,414.18 while volume shrank further to 34.42m shares from 37.25m traded on Monday. Nintendo, the maker of video computer games, lost the Y300 it gained on Monday to finish at Y11,700.

"You're shrinking the sky?"

THE ASIA Pacific region appeared shell-shocked as the crisis in China took a further heavy toll on share prices.

points terms this year as the Straits Times industrial index fell 38.24 to 1.233.13 in turnover of 100m shares, up from Mon-day's 93.6m. The market has lost 5.5 per cent in two days as a result of the turmoil in China and its impact on Hong Kong. Unit trust managers were particularly active, with many selling in order to meet margin calls on Hong Kong holdings. Among the worst losers were Singapore Airlines foreign and

local which both fell 60 cents to \$\$16.40 and \$\$12.90.

TAIWAN also plunged again, with the weighted index losing 438.99 to 8,681.55 for a two-day

setback of 9.3 per cent. AUSTRALIA fell further in featureless trading, with losses triggered by Wall Street's fall on Monday. The All Ordinaries index ended down 12.2 at 1,523.3 in turnover of 149m

shares worth A5323m. Email, the white goods manufacturer which announced record profits and a one-for-10 scrip issue on Monday, fell 10 cents to A\$4.10, apparently because of its interests in

NEW ZEALAND stocks were badly hit by the tension in the region and by the large losses announced by Bank of New Zealand. The bank's shares lost 22 cents to 78 cents and the Barclays index fell 26.92 to SINGAPORE plummeted for 22 cents to 78 cents and a second day, with shares suffering their biggest loss in 1,878.07 in thin turnover.

THE THE

Peak performance by Switzerland MARKETS IN PERSPECTIVE

By Jacqueline Moore

MIXTURE of political and economic influ-ences produced further wild swings in world stock markets last week.

The evaporation of interest rate fears helped Switzerland become the week's top performer, jumping 4.8 per cent in local currency terms, according to the FT-Actuaries World while, retreated 3.3 per cent as events in China hit trading and that was before this Monday's 22 per cent plunge. Switzerland relaxed after the

West German Bundesbank's decision on Thursday to leave together with the return of for-eign interest, helped to propel it to a year's high on Friday. One analyst described the surge as "all very bizarre," with people searching for any

Excuse to buy.

Until last week, Switzerland had risen a tiny 2.8 per cent since the start of the year. Last since the start of the year. Last week's rise took its advance to a healthier 7.6 per cent — but still meagre compared with European markets such as the UK, up 16.7 per cent, and the Netherlands, up 14.6 per cent. Asia was volatile last week, with Hong Kong dominated by the unrest in China. A four-day decline virtually wiped out Hong Kong's gains this year. By Friday, Hong Kong was just

NATIONAL AND

0.2 per cent up on the start of 1989, after being 24 per cent higher on May 12.

Some Far Eastern markets benefited from Hong Kong's benefited from Hong Kong's nervousness. Malaysia was the world's second best performer last week, advancing 4.6 per cent, while Singapore gained 3 per cent. Investors worried about Hong Kong had diversified their risk around the region, said one analyst.

Elsewhere, there were appressive performances from aged by recent tax reform pro-posals and a large trade sur-plus, and Mexico, the year's best performer among the 24 markets covered, which continued to benefit from an easing of foreign investment regula-tions. West Germany was also strong, rising 3.1 per cent after reaching a series of year highs. Europe's steepest fall was in Norway, which dropped 2.5 per cent as consolidation set in

 Dollar investors had a tough time in international markets last month as the strength of the US currency eroded gains in overseas share prices, writes Alison Maitland.
US investors who stayed at home had a reasonably profit-able May, with their domestic market gaining 3.7 per cent. But world markets excluding the US, which edged up 1.3 per cent in local currency terms,

suffered a 4.6 per cent drop when the dollar's substantial

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after a run of all-time peaks.

_	% d	% change in sterling †			
	1 Week	4 Wooks	1 Year	Start of 1980	Start of 1980
Austria	+ 1.84	+1.30	+56.57	+39.03	+43.01
Belgium	-0.31	+0.98	+21.39	+6.11	+9.71
Denmark	+4.50	+299	+63.75	+ 18.03	+20.67
Finland	+ 1 <i>.2</i> 7	-0.20	+ 16.00	+ 17.82	+26.58
France	+ 1.83	+5.16	+44.73	+ 15.14	+ 19.27
West Germany	+3.08	+2.40	+25.92	+7. 33	+10.53
freiand	- 1.51	-3.73	+ 18.23	+ 15.61	+ 19.06
Italy	+ 1.37	-0.02	+22.58	-0.17	+4.26
Netherlands	+0.44	+0.90	+26.49	+ 14.55	+18.22
Norway	-249	-2.43	+63.71	+38.17	+45.19
Spain	-0.14	+2.34	+2.69	+ 10.13	+14.35
Sweden	-1.11	+3.45	+40.96	+ 18.55	+24.64
Switzerland	+4.75	+ 1.69	+10.25	+7.64	+9.06
UK	-1.84	-0.73	+ 15.65	+ 16.74	+16.74
EUROPE	+0.18	+0.96	+21.48	+12.98	+14.96
Australia	+0.30	+1.79	1.74	+3.40	+4.23
Hong Kong	-3.33	- 18.89	+9.09	+0 <i>.</i> 21	+ 14.35
Japan	-1.26	-219	+ 17.82	+5.37	+5.59
Malaysia	+4.63	+ 1.71	+37.82	+28.57	+46.52
New Zealand	+0.56	-3.40	-4.83	+3.84	+9.39
Singapore	+3.01	+2.48	+33.52	+30.0	+47.13
Canada	+1.31	+4.24	+11.48	+11.34	+25.15
USA	+ 1 <i>.2</i> 7	+6.52	+23.34	+17.30	+33.10
Mexico	+4.19	+26.59	+53.25	+51.85	+60.16
South Africa	-0.16	-3.55	+38.68	+22.70	+28.45
WORLD INDEX	-0.04	+1.22	+19.66	+10.73	+16.25

cies was taken into account. Of the 22 countries outside North America covered by the FT-Actuaries World Indices, only three gained in dollar terms last month: Mexico, up 22.7 per cent, Singapore, 3.2 per cent higher, and Malaysia, ris-

The opposite was true for sterling investors abroad, who benefited from the pound's weakness in May and saw a 5.6 per cent rise in their non-UK portfolios. While the UK was unchanged, the US climbed 11.4 per cent and Singapore 10.8 per cent in sterling terms

FT-ACTUARIES WORLD INDICES

Jointly complled by The Financial Times Limited, Goldman, Sachs & Co., and County NatWest/Wood Mackenzie in conjunction with the Institute of Actuaries and the Faculty of Actuaries

REGIONAL MARKETS _												
Figures in parentheses show number of stocks per grouping	US Dollar Index	Day's Change %	Pound Sterling Index	Local Currency Index	Day's change % local currency	Gross Div. Yield	US Dollar Index	Pound Sterling Index	Local Currency Index	1989 High	1989 Low	Year ago (approx)
Australia (87)	130.57	-1.8	123,34	115.55	-1.2	5.00	132,94	124.63	116.89	157.12	128.28	143.62
Austria (19),	119.62	-0.9	112.99	123.37	+0.4	2.09	120.75	113.19	122.89	124.16	92.84	87.85
Belgium (63)	128.24	- 1.4	121.14	131.57	-0.3	4.17	130.03	121.89	131.95	137.10	126.33	123.76
Canada (124)	139.77	+0.8	132.03	121.60	+0.9	3.36	138.70	130.03	120.57	139.77	124.67	121.91
Denmark (38),	180.68	+0.2	170.67	189.59	+ 1.0	1.78	180.40	169.12	187.64	181.03	165.36	129.17
Finland (26)	144,12	- 1.4	136.14	133.93	-0.1	1.56	146.12	136.98	134.07	159.16	125.81	137.98
France (128)	119.09	- 1.1	112.50	125.59	-0.3	3.02	120.47	112.94	125.95	122.79	112.57	96.81
West Germany (100)	84.42	-1.3	79.74	86.77	-0.6	2.34	85.57	80.22	87.31	90.40	79.56	77.55
Hong Kong (49)	88,78	+27	83.87	88.89	+2.7	6.07	86.41	81.01	86.53	140.33	86.41	103.79
Ireland (17)	136.61	<u>-1.7</u>	129.04	142.63	+0.0	2.95	139.03	130.34	142.68	151.36	125.00	135.63
Italy (97)	78.04	-0.6	73.72	83.81	+0.3	263	78.54	73.63	83.58	86.88	74.97	70.27
Japan (455)	175.13	-0.9	165.43	158.19	-0.2	0.50	176.69	165.64	158.43	200.11	175.13	171.94
Malaysia (36)	174.24	-2.6	164.5 9	181.52	-23	2.64	178.94	167.74	185.76	185.03	143.35	142.27
Mexico (13)	228.80	- 0.6	216.13	619.65	-0.4	0.81	230.30	215.89	622.19	230.30	153.32	162.42
Netherland (42)	116.17	+0.0	109.73	118.16	+0.9	4.36	116,14	108.87	117.15	122.22	110.63	105.43
New Zealand (24)	64.03	- 1.6	60.48	58.88	-0.5	6.26	65,10	61.03	59.17	76.02	64.03	80,94
Norway (26)	174.52	— 1.7	164.85	189.96	-0.8	1.58	177.48	166.38	171.34	198.39	139.92	124.43
Singapore (26)	153.69	- 2.4	145.17	138.25	- <u>2.2</u>	2.01	157.40	147.55	141.30	161.98	124.57	119.13
South Africa (60)	136.44	+0.9	128.88	124.00	+0.5	4.26	135,22	128.78	123.42	144.86	115,35	136,91
Spain (43)	143,92	-2.9	135.95	140.05	+0.1	3.57	148.20	138.93	139.95	156,17	143.14	163.05
Sweden (35)	156.80	-0.6	148.12	154.68	- Ó.1	2.22	157.80	147.93	154.82	162.00	138.45	123.80
Switzerland (57)	74.35	- 1.2	70.24	79,01	-0.2	2.58	75.28	70.58	79.13	79.76	87.81	80.53
United Kingdom (314)	137,37	+0.1	129.76	129,76	+0.8	4.45	137.28	128.67	128.67 ·	153,33	134.53	137.10
USA (557)	132.18	+0.6	124.86	132.18	+0.6	3.39	131,43	123.21	131.43	132.76	112.13	108.06
	444.00	-0.6	108.27	113.75								
Europe (1005)	114.62				+0.3	3.60	115.32	108.11	113.40	121.70	112.65	109.05
Nordic (125)	152.42	-0.5	143.98	147.74	+0.2	1.93	153.25	143.66	147.41	155.61	137.95	117.61
Pacific Basin (677)	170.25	-0.9	160.82	154.05	-0.2	0.73	171.76	161.02	154.29	194.72	170.25	168.15
Euro - Pacific (1682)	148.05	-0.8	139.85	137.93	+0.0	1.64	149.23	139.90	137.95	164.22	148.05	144,52
North America (681)	132.54	+0.6	125.20	131.53	+0.6	3.39	131.77	123.53	130.76	133.00	112.79	108.80
Europe Ex. UK (691)	100.23	- <u>1.1</u>	94.68	103.84	-0.1	294	101.39	95.05	103.95	105.29	96.30	91.63
Pacific Ex. Japan (222)	111.93	-0.7	105.73	102.60	-0.2	5.03	112.70	105.65	102.84	137.65	111.93	122,47
World Ex. US (1879)	147.69	- 0.7	1 39 .51	137.44	+0.0	1.72	148.78	139.47	137.41	162,77	147.69	143.68
World Ex. UK (2122)	141.58	- 0.3	133.72	136.24	+0.1	2.07	142.03	133.14	136.04	146.04	138.06	129.23
World Ex. Sc. At. (2376)	141,20	- 0.3	133.38	135.71	+0.2	2.27	141.63	132,77	135.43	146.65	138.82	129.87
World Ex. Japan (1981)	125,13	+0.1	118.20	124.11	+ 0.5	3.52	124.97	117.15	123.54	126.30	114.51	109.75
			100 SE	135.63	+0.2							
The World Index (2436)	141.17	-0.3	133.35	133.03	T V.2	2.28	141.59	132.73	135.35	146.51	138.83	129,92

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